

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: P952851

Luminaire Tested: **GALN-SB6C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952851
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-SB6C-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39414 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

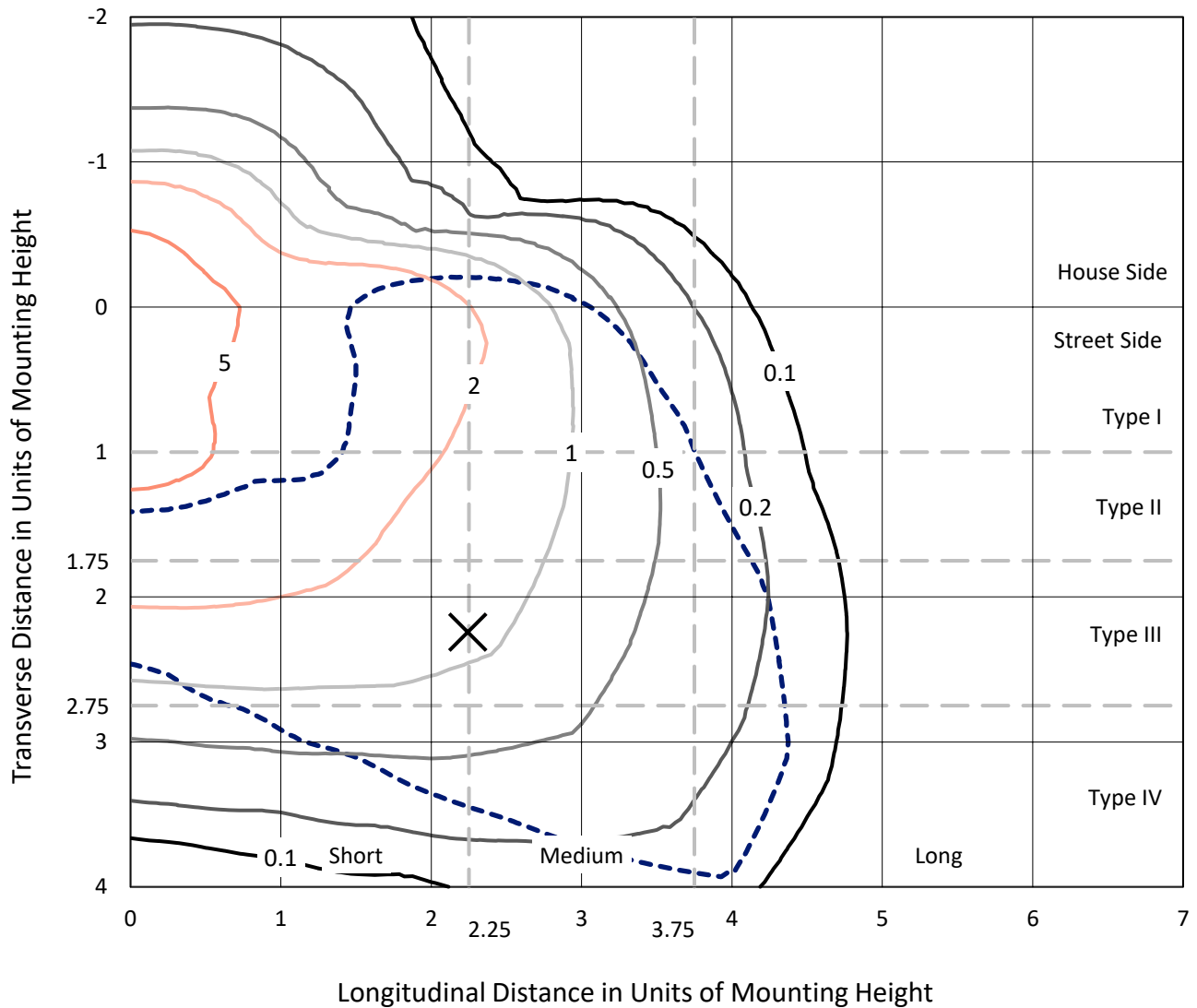
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

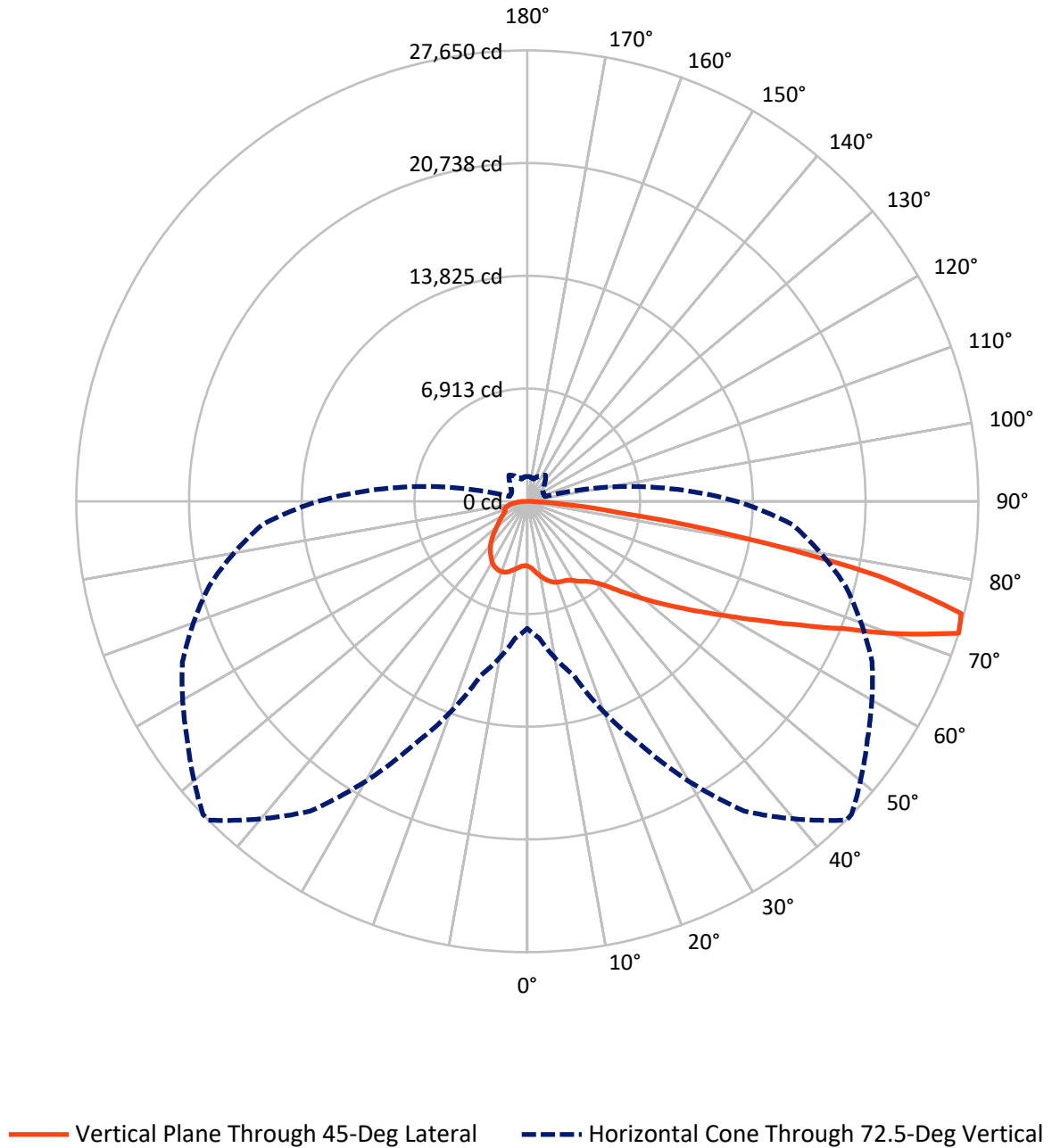
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	8910.1	0.0	8910.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30503.9	0.0	30503.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	39414.0	0.0	39414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	1.0
10°-20°	1349.3	3.4
20°-30°	2347.2	6.0
30°-40°	3364.8	8.5
40°-50°	4737.8	12.0
50°-60°	7256.9	18.4
60°-70°	10512.7	26.7
70°-80°	8395.0	21.3
80°-90°	1045.6	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°	39414.0	100.0
0°-180°	39414.0	100.0



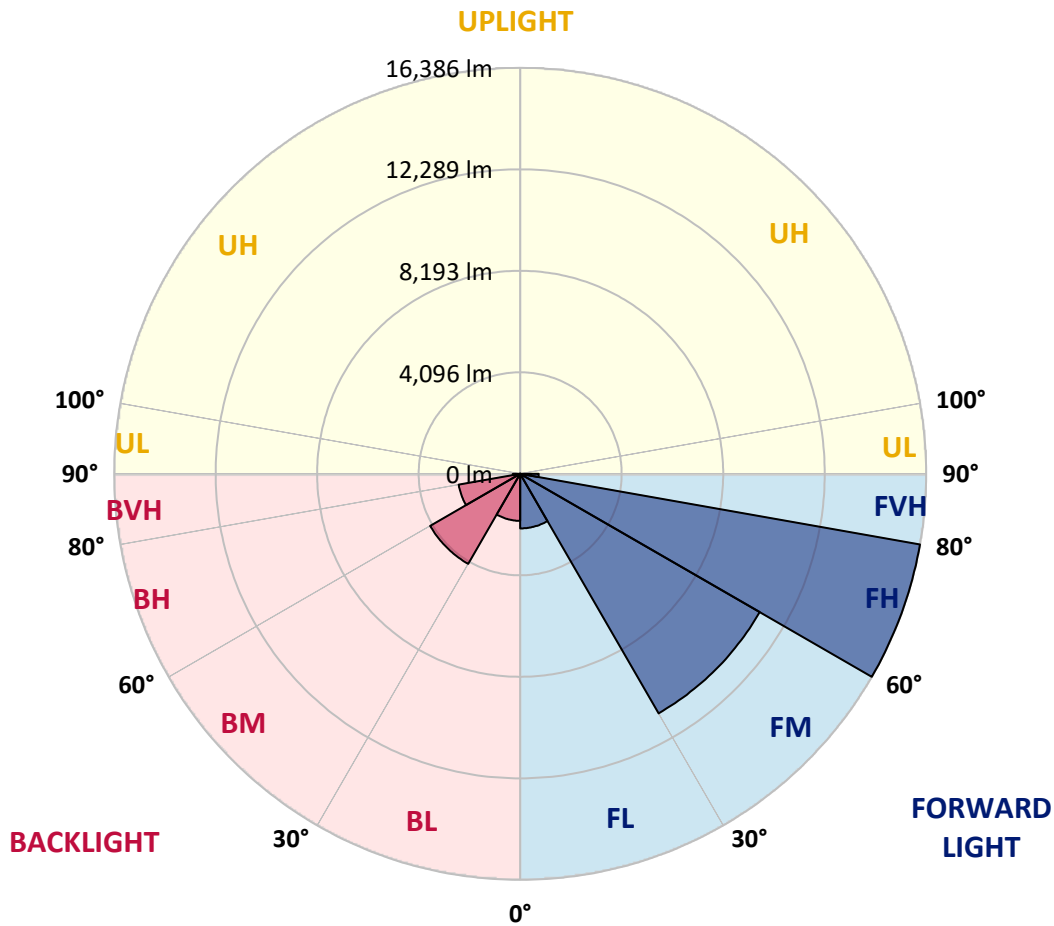
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.1	5.6			
FM (30°-60°)	11164.1	28.3			
FH (60°-80°)	16385.6	41.6			G5
FVH (80°-90°)	750.1	1.9			G5
BL (0°-30°)	1897.0	4.8	B3/2500		
BM (30°-60°)	4195.4	10.6	B3/5000		
BH (60°-80°)	2522.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	295.5	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
2.5°	4131.8	4158.8	4133.9	4111.1	4100.7	4073.7	4071.6	4055.0	4044.6	4015.6
5°	4420.4	4455.7	4414.2	4368.5	4327.0	4260.6	4252.3	4204.5	4150.5	4088.2
7.5°	4746.4	4777.6	4729.8	4661.3	4588.6	4478.6	4476.5	4389.3	4304.2	4198.3
10°	5030.9	5072.4	5008.0	4914.6	4823.2	4698.7	4684.1	4584.5	4476.5	4339.5
12.5°	5282.1	5311.2	5248.9	5134.7	5028.8	4904.2	4885.5	4775.5	4655.1	4499.3
15°	5481.4	5518.8	5435.7	5313.2	5201.1	5078.6	5062.0	4962.3	4841.9	4677.9
17.5°	5612.2	5643.4	5558.2	5421.2	5313.2	5211.5	5199.0	5116.0	5010.1	4844.0
20°	5662.1	5695.3	5606.0	5466.9	5367.2	5288.3	5282.1	5221.9	5149.2	4997.6
22.5°	5711.9	5743.0	5626.8	5481.4	5394.2	5344.4	5342.3	5302.9	5273.8	5149.2
25°	5913.3	5921.6	5765.9	5556.2	5431.6	5388.0	5385.9	5383.8	5396.3	5298.7
27.5°	6087.7	6085.6	5952.7	5755.5	5562.4	5471.0	5469.0	5489.7	5529.2	5448.2
30°	6343.1	6320.2	6162.4	5956.9	5780.4	5639.2	5626.8	5608.1	5639.2	5574.9
32.5°	6885.0	6812.3	6556.9	6191.5	5961.0	5853.1	5836.5	5720.2	5732.7	5693.2
35°	7661.5	7566.0	7225.5	6635.8	6185.3	6031.6	6023.3	5875.9	5851.0	5815.7
37.5°	8585.5	8467.1	8070.6	7279.5	6571.5	6239.3	6226.8	6093.9	5992.2	5954.8
40°	9513.6	9364.1	9036.0	8064.3	7140.4	6586.0	6546.6	6345.2	6228.9	6166.6
42.5°	10414.7	10290.1	10009.8	8944.7	7842.2	7092.6	7005.4	6660.8	6573.6	6515.4
45°	11212.0	11099.9	10894.3	9885.2	8664.4	7782.0	7696.8	7134.2	7107.2	7107.2
47.5°	11859.8	11834.9	11616.9	10844.5	9634.0	8566.8	8419.4	7792.3	7865.0	7977.1
50°	12578.2	12509.7	12277.1	11789.2	10773.9	9465.8	9345.4	8600.0	8872.0	9179.3
52.5°	13238.5	13275.8	13016.3	12773.4	12061.2	10468.7	10256.9	9553.0	10140.6	10649.3
55°	13917.4	13919.5	13846.8	13813.6	13410.8	11577.4	11344.9	10699.1	11633.5	12264.7
57.5°	14554.8	14559.0	14666.9	14959.7	14976.3	12856.4	12592.7	12106.9	13292.4	13936.1
60°	15123.7	15152.8	15447.6	16132.8	16352.9	14322.3	14073.1	13770.0	15007.5	15655.3
62.5°	15314.8	15420.6	16076.8	17050.5	17712.9	16120.4	15875.4	15694.7	16809.7	17411.8
65°	14990.9	15233.8	16502.4	17808.4	19112.3	18256.9	18013.9	17816.7	18682.5	19249.3
67.5°	14195.6	14509.2	16477.5	18603.6	20810.7	20827.3	20601.0	20138.0	20690.3	20908.3
70°	12100.6	12569.9	15026.1	18900.5	22760.3	24342.5	24124.5	22932.7	22693.9	21639.1
72.5°	7796.5	8427.7	11064.6	16456.7	23194.3	27650.0	27637.6	25455.4	23327.2	20219.0
75°	2844.5	3230.7	5140.9	10329.6	19469.4	27481.8	27562.8	25023.5	21294.5	15617.9
77.5°	1036.1	1133.7	1677.6	3969.9	11974.0	22050.3	22218.4	20005.1	15157.0	7838.0
80°	544.0	598.0	859.6	1540.6	5130.5	13095.2	13358.9	11888.9	7123.8	2360.7
82.5°	301.1	326.0	481.7	836.7	2310.9	5599.8	5757.6	4696.6	2506.1	1000.8
85°	162.0	172.3	226.3	456.8	1129.5	1941.3	1984.9	1403.6	998.7	587.6
87.5°	47.8	58.1	74.7	145.3	442.3	436.0	446.4	278.2	394.5	296.9
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°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
4007.2	2.5°	3994.8	3988.6	3965.7	3955.3	3942.9	3940.8	3951.2	3953.3	3955.3	3957.4
4052.9	5°	4032.2	4011.4	3990.6	3978.2	3982.3	3984.4	4005.2	4019.7	4030.1	4038.4
4138.1	7.5°	4104.8	4088.2	4052.9	4050.9	4057.1	4075.8	4102.8	4136.0	4154.7	4169.2
4248.1	10°	4212.8	4181.7	4140.1	4146.4	4158.8	4185.8	4241.9	4268.9	4300.0	4327.0
4383.1	12.5°	4322.8	4295.9	4248.1	4252.3	4273.0	4320.8	4374.8	4408.0	4428.7	4449.5
4528.4	15°	4466.1	4418.4	4366.4	4366.4	4403.8	4455.7	4480.6	4507.6	4520.1	4542.9
4684.1	17.5°	4613.5	4551.2	4482.7	4478.6	4524.2	4549.2	4563.7	4567.8	4572.0	4596.9
4835.7	20°	4760.9	4692.4	4594.8	4586.5	4596.9	4592.8	4590.7	4586.5	4592.8	4623.9
4991.4	22.5°	4906.3	4827.4	4692.4	4655.1	4626.0	4586.5	4584.5	4582.4	4586.5	4617.7
5159.6	25°	5076.5	4981.0	4800.4	4688.3	4590.7	4536.7	4542.9	4545.0	4549.2	4574.1
5334.0	27.5°	5261.3	5155.4	4900.1	4677.9	4501.4	4464.0	4453.7	4459.9	4474.4	4513.9
5508.4	30°	5446.1	5321.5	4991.4	4636.4	4389.3	4337.4	4304.2	4318.7	4364.4	4403.8
5660.0	32.5°	5614.3	5489.7	5064.1	4545.0	4246.0	4165.0	4121.4	4140.1	4185.8	4200.3
5828.2	35°	5811.6	5670.4	5095.2	4399.7	4090.3	3965.7	3907.6	3880.6	3903.4	3888.9
6025.4	37.5°	6031.6	5884.2	5091.1	4208.7	3907.6	3764.3	3683.3	3581.6	3533.9	3484.0
6316.1	40°	6357.6	6145.8	5041.2	3978.2	3681.3	3550.5	3405.1	3232.8	3124.8	3027.2
6785.3	42.5°	6801.9	6509.2	4949.9	3724.9	3425.9	3303.4	3106.1	2904.7	2734.5	2572.5
7497.5	45°	7464.3	6984.7	4835.7	3455.0	3149.7	3029.3	2815.5	2589.1	2396.0	2188.4
8508.7	47.5°	8419.4	7624.2	4727.7	3147.7	2859.1	2749.0	2555.9	2346.2	2117.8	1916.4
9970.4	50°	9731.6	8541.9	4628.1	2848.7	2572.5	2489.5	2335.8	2122.0	1891.5	1729.6
11683.3	52.5°	11400.9	9789.7	4586.5	2560.1	2304.7	2273.5	2151.0	1951.7	1733.7	1596.7
13680.7	55°	13317.4	11282.6	4586.5	2283.9	2070.1	2080.4	1995.3	1810.5	1621.6	1499.1
15740.4	57.5°	15273.2	12794.1	4503.5	2028.5	1870.7	1914.3	1860.4	1698.4	1528.2	1401.5
17906.0	60°	17075.5	14060.7	4167.1	1796.0	1694.3	1762.8	1727.5	1588.4	1380.7	1274.8
19716.5	62.5°	18460.3	14774.9	3519.3	1611.2	1548.9	1627.8	1609.1	1443.0	1353.7	1310.1
21203.1	65°	19153.8	14658.6	2690.9	1447.2	1426.4	1548.9	1509.5	1503.2	1432.6	1382.8
21686.9	67.5°	18728.2	13657.9	1951.7	1326.8	1355.8	1476.2	1627.8	1652.7	1521.9	1424.3
20324.9	70°	16861.6	11847.3	1453.4	1212.6	1266.5	1478.3	1856.2	1729.6	1492.9	1378.7
16301.0	72.5°	12827.4	8834.6	1127.4	1092.1	1150.3	1488.7	1957.9	1694.3	1409.8	1524.0
10155.2	75°	7335.6	4850.2	905.3	944.7	1004.9	1391.1	1906.0	1602.9	1345.4	1399.4
4023.9	77.5°	2796.8	1864.5	747.5	799.4	807.7	1214.6	1823.0	1596.7	1281.1	1249.9
1206.3	80°	969.6	728.8	618.7	635.3	625.0	1079.7	1748.2	1389.0	1048.5	938.5
498.3	82.5°	396.6	363.4	490.0	469.2	444.3	838.8	1411.9	1135.7	857.5	757.8
240.9	85°	172.3	230.5	323.9	284.5	257.5	581.4	1131.6	961.3	724.6	625.0
78.9	87.5°	35.3	87.2	137.0	128.7	132.9	388.3	803.5	683.1	512.8	384.1
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°
3976.1
3965.7
4042.5
4173.4
4320.8
4457.8
4551.2
4605.2
4636.4
4638.4
4607.3
4553.3
4447.4
4252.3
3934.6
3515.2
3033.5
2558.0
2163.5
1893.6
1719.2
1586.3
1486.6
1380.7
1258.2
1295.6
1366.2
1407.7
1360.0
1511.5
1399.4
1139.9
907.3
749.5
622.9
301.1
0.0

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