

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: P943717

Luminaire Tested: **GALN-SB8B-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8B-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

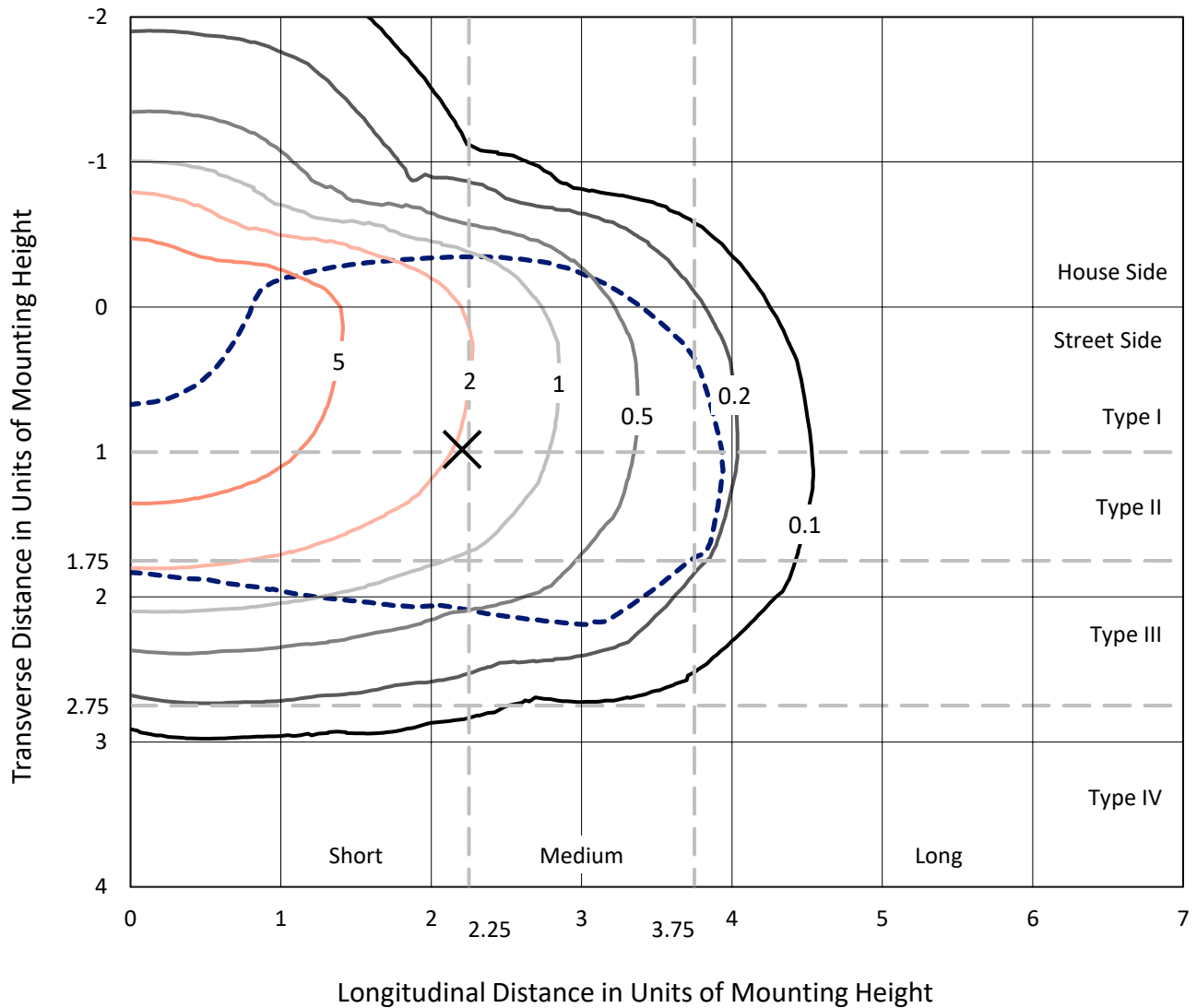
Lumens per Lamp: N/A  
Luminaire Lumens: 39621 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

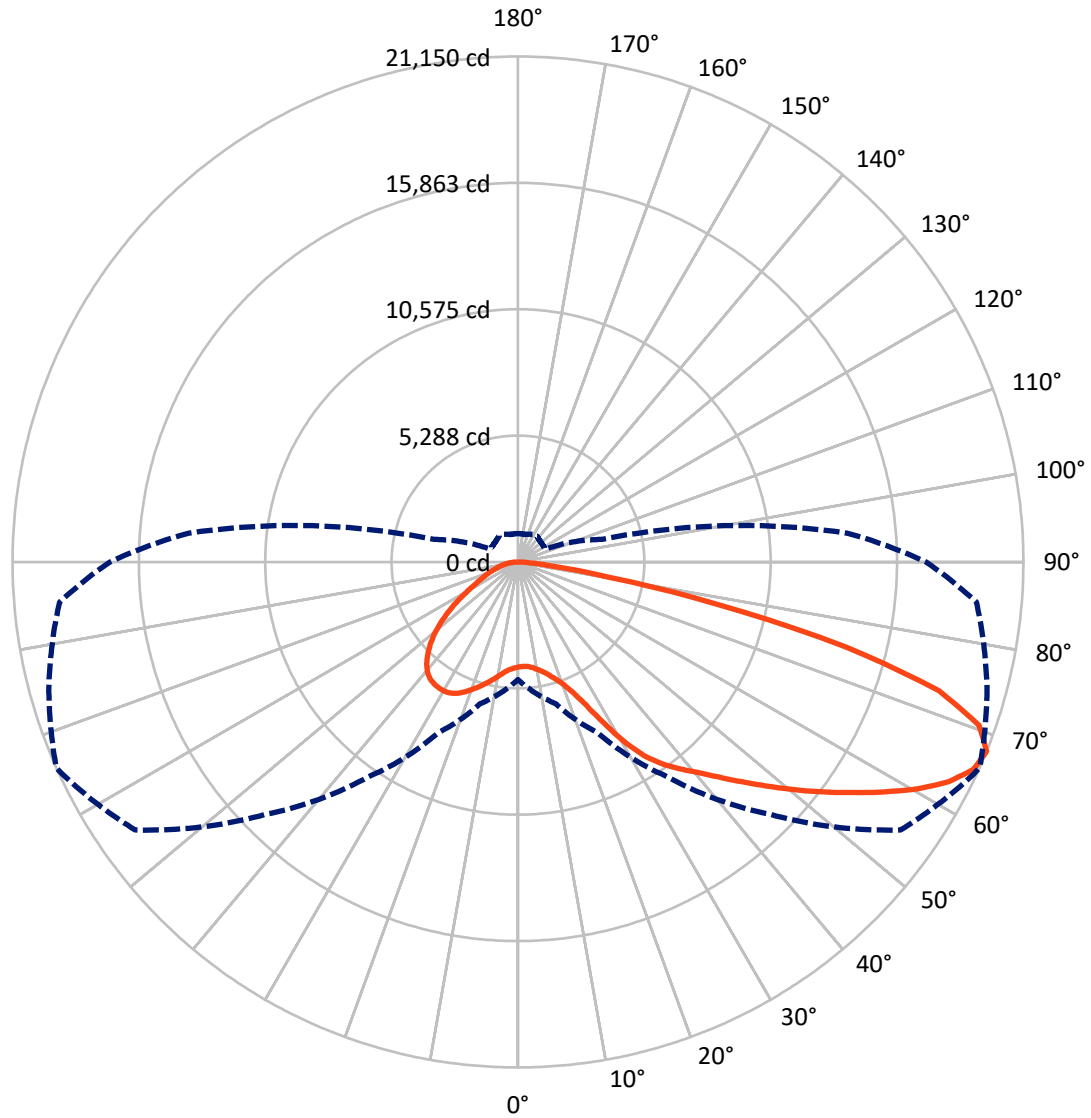
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9851.6	0.0	9851.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	29769.3	0.0	29769.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	39621.0	0.0	39621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.7	1.1
10°-20°	1439.5	3.6
20°-30°	2774.5	7.0
30°-40°	4864.8	12.3
40°-50°	7232.3	18.3
50°-60°	9167.7	23.1
60°-70°	8970.3	22.6
70°-80°	4278.9	10.8
80°-90°	457.3	1.2
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°	39621.0	100.0
0°-180°	39621.0	100.0

**Coefficient of Utilization**



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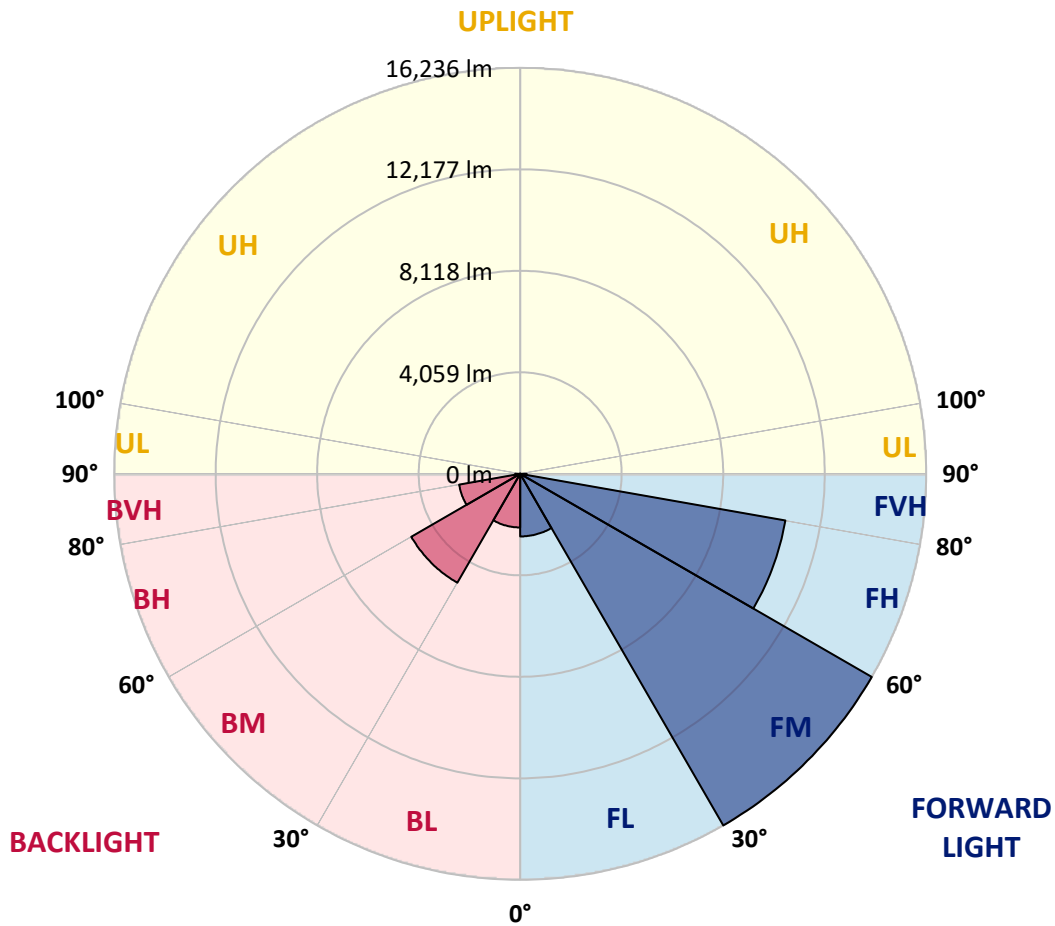
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2503.7	6.3			
FM (30°-60°)	16236.4	41.0			
FH (60°-80°)	10770.1	27.2			G4/12000
FVH (80°-90°)	259.3	0.7			G3/500
BL (0°-30°)	2146.0	5.4	B3/2500		
BM (30°-60°)	5028.4	12.7	B4/8500		
BH (60°-80°)	2479.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	198.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5
2.5°	4348.7	4373.7	4367.4	4357.0	4354.9	4359.1	4365.3	4371.6	4369.5	4379.9
5°	4336.2	4361.2	4359.1	4359.1	4367.4	4384.1	4394.5	4404.9	4394.5	4407.0
7.5°	4344.5	4363.3	4371.6	4379.9	4400.7	4432.0	4456.9	4479.8	4467.4	4481.9
10°	4450.7	4465.3	4473.6	4473.6	4488.2	4523.6	4548.5	4590.2	4579.8	4602.7
12.5°	4644.3	4658.9	4658.9	4650.5	4661.0	4683.9	4692.2	4738.0	4719.2	4756.7
15°	4881.6	4910.8	4887.9	4873.3	4877.4	4900.3	4898.3	4933.7	4914.9	4946.1
17.5°	5143.9	5181.4	5143.9	5141.8	5133.5	5158.5	5160.6	5191.8	5158.5	5181.4
20°	5454.1	5506.1	5474.9	5485.3	5466.6	5477.0	5487.4	5533.2	5481.1	5497.8
22.5°	5891.2	5953.7	5920.4	5959.9	5947.4	5939.1	5937.0	6018.2	5937.0	5943.3
25°	6528.2	6603.2	6544.9	6599.0	6599.0	6626.1	6657.3	6761.4	6626.1	6586.5
27.5°	7469.2	7544.1	7429.6	7462.9	7452.5	7519.1	7485.8	7744.0	7598.2	7533.7
30°	8601.6	8734.9	8518.4	8510.0	8499.6	8605.8	8653.7	8824.4	8676.6	8612.0
32.5°	9825.7	9965.2	9707.0	9632.1	9592.5	9657.1	9617.5	9754.9	9652.9	9553.0
35°	11120.5	11257.9	11012.3	10866.5	10708.3	10573.0	10431.5	10466.8	10371.1	10219.1
37.5°	12344.5	12596.4	12336.2	12180.1	11888.7	11624.3	11228.8	11064.3	10974.8	10835.3
40°	13591.5	13735.1	13537.4	13404.1	13087.7	12673.5	12040.6	11693.0	11572.2	11436.9
42.5°	14509.5	14646.9	14540.8	14449.2	14201.4	13720.6	12902.4	12467.4	12292.5	12140.5
45°	15238.1	15340.1	15273.5	15306.8	15200.7	14734.4	13795.5	13298.0	13116.9	12931.6
47.5°	15531.6	15639.9	15746.1	15943.8	16124.9	15781.5	14755.2	14197.3	14005.8	13816.3
50°	15498.3	15608.7	15916.8	16337.3	16899.3	16784.8	15766.9	15154.9	14977.9	14761.4
52.5°	15231.9	15356.8	15752.3	16451.8	17346.9	17536.3	16797.3	16143.7	15977.1	15719.0
55°	14532.4	14607.4	15200.7	16191.6	17453.1	18060.9	17807.0	17197.0	17030.5	16670.3
57.5°	13235.5	13343.8	14207.7	15490.0	17186.6	18416.9	18693.8	18304.5	18144.2	17625.8
60°	11543.1	11715.9	12704.7	14311.8	16508.0	18414.8	19499.4	19393.2	19260.0	18566.8
62.5°	9627.9	9827.8	10779.1	12646.4	15321.4	17892.3	20003.2	20305.0	20236.3	19434.9
65°	7394.2	7531.6	8478.8	10491.8	13474.9	16770.3	20061.5	20927.4	20939.9	20094.8
67.5°	4923.2	5318.8	6141.0	7873.0	11001.8	14936.3	19549.4	21029.4	21150.2	20321.7
70°	2402.3	2922.7	3728.3	5116.8	7873.0	12123.9	18210.8	20192.6	20461.1	19659.7
72.5°	997.1	1165.8	1605.0	2525.1	4519.4	8181.1	15521.2	17923.5	18421.1	17419.8
75°	672.4	728.6	918.0	1294.8	2058.8	4034.4	11193.4	13364.6	14166.0	13156.4
77.5°	518.3	553.7	668.2	905.5	1224.0	1525.9	5991.2	8054.1	8468.4	7839.7
80°	408.0	435.1	499.6	659.9	868.1	816.0	2042.2	3649.2	3888.6	3262.0
82.5°	353.9	364.3	358.1	447.6	576.6	476.7	670.3	1346.9	1486.3	1078.3
85°	256.1	285.2	297.7	276.9	306.0	241.5	274.8	476.7	524.6	468.4
87.5°	104.1	154.0	189.4	179.0	112.4	68.7	85.4	139.5	160.3	174.9
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°
4394.5	0°	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5
4396.6	2.5°	4398.7	4413.2	4423.6	4436.1	4444.5	4456.9	4481.9	4496.5	4498.6	4509.0
4429.9	5°	4438.2	4459.0	4481.9	4515.2	4552.7	4583.9	4631.8	4665.1	4677.6	4688.0
4511.1	7.5°	4523.6	4552.7	4594.3	4652.6	4706.7	4748.4	4806.7	4846.2	4885.8	4900.3
4640.1	10°	4650.5	4692.2	4752.5	4831.7	4889.9	4944.1	5004.4	5037.7	5077.3	5093.9
4794.2	12.5°	4808.8	4852.5	4931.6	5041.9	5096.0	5133.5	5154.3	5146.0	5154.3	5168.9
4979.5	15°	4989.9	5037.7	5127.3	5245.9	5283.4	5250.1	5204.3	5162.6	5156.4	5160.6
5204.3	17.5°	5204.3	5239.7	5343.8	5443.7	5416.6	5279.2	5179.3	5112.7	5079.4	5069.0
5491.6	20°	5504.0	5504.0	5589.4	5651.8	5470.7	5237.6	5081.5	4973.2	4904.5	4875.4
5882.9	22.5°	5868.3	5835.0	5889.2	5845.4	5460.3	5121.0	4904.5	4717.2	4613.1	4571.4
6430.4	25°	6330.5	6290.9	6276.4	6005.7	5385.4	4935.7	4583.9	4357.0	4265.4	4242.5
7219.4	27.5°	7027.9	6927.9	6738.5	6093.2	5248.0	4644.3	4209.2	3999.0	3946.9	3949.0
8233.2	30°	7956.3	7756.5	7292.2	6107.7	5023.2	4232.1	3826.2	3676.3	3651.3	3661.7
9084.6	32.5°	8816.0	8626.6	7858.5	6041.1	4677.6	3828.3	3482.7	3382.8	3345.3	3357.8
9734.1	35°	9490.5	9438.5	8383.1	5947.4	4252.9	3449.4	3174.6	3089.3	3016.4	2999.7
10346.1	37.5°	10127.5	10106.7	8776.5	5816.3	3832.4	3180.9	2926.9	2814.5	2708.3	2650.0
11022.7	40°	10827.0	10806.2	9034.6	5614.4	3459.8	2947.7	2704.1	2556.3	2425.2	2319.0
11788.7	42.5°	11613.9	11491.0	9157.4	5325.0	3143.4	2749.9	2523.0	2323.2	2150.4	2052.6
12654.7	45°	12473.6	12196.7	9155.4	4956.6	2876.9	2568.8	2329.4	2046.3	1886.0	1794.4
13543.6	47.5°	13385.4	12871.2	9043.0	4548.5	2618.8	2369.0	2029.7	1813.2	1707.0	1650.8
14509.5	50°	14326.3	13502.0	8851.4	4080.2	2354.4	2142.1	1842.3	1694.5	1613.3	1561.3
15467.1	52.5°	15211.1	14074.4	8620.4	3549.3	2085.9	1921.4	1759.0	1644.6	1559.2	1500.9
16395.6	55°	16033.3	14567.8	8293.5	3006.0	1867.3	1773.6	1719.5	1623.7	1525.9	1457.2
17338.6	57.5°	16764.0	14888.4	7729.4	2496.0	1711.2	1671.6	1677.9	1588.3	1475.9	1417.6
18267.0	60°	17371.9	15123.6	6894.6	2023.4	1584.2	1571.7	1613.3	1521.7	1390.6	1324.0
19051.8	62.5°	17736.2	15119.5	5870.4	1657.0	1475.9	1480.1	1528.0	1438.5	1305.2	1242.8
19461.9	65°	17705.0	14748.9	4746.3	1417.6	1371.8	1376.0	1438.5	1346.9	1234.5	1197.0
19255.8	67.5°	17078.4	13845.5	3640.9	1261.5	1257.4	1276.1	1348.9	1284.4	1190.7	1186.6
18027.6	70°	15381.8	11969.8	2623.0	1136.6	1138.7	1165.8	1261.5	1244.9	1167.8	1176.2
15156.9	72.5°	12334.1	9126.2	1761.1	1005.5	1007.5	1051.3	1178.2	1213.6	1144.9	1255.3
10754.1	75°	8214.4	5691.4	1132.5	866.0	868.1	924.3	1105.4	1153.3	1082.5	1251.1
5595.6	77.5°	3946.9	2558.4	820.2	728.6	728.6	780.6	955.5	1032.5	922.2	972.2
1798.6	80°	1363.5	961.8	645.3	587.0	574.6	609.9	805.6	895.1	795.2	732.8
587.0	82.5°	537.1	499.6	518.3	455.9	414.3	437.2	626.6	739.0	585.0	528.8
331.0	85°	308.1	324.7	366.4	301.8	239.4	268.5	460.1	530.8	441.3	389.3
108.2	87.5°	83.3	114.5	168.6	156.1	108.2	114.5	218.6	293.5	254.0	195.7
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°  
4394.5  
4506.9  
4685.9  
4902.4  
5102.3  
5173.1  
5175.1  
5083.5  
4869.1  
4565.2  
4246.7  
3955.3  
3697.1  
3374.5  
3012.2  
2652.1  
2329.4  
2058.8  
1790.3  
1638.3  
1542.5  
1475.9  
1430.1  
1380.2  
1294.8  
1224.0  
1194.9  
*1192.8*  
1174.1  
1271.9  
1261.5  
891.0  
687.0  
526.7  
397.6  
201.9  
0.0

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