

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: P956799

Luminaire Tested: **GALN-SB9B-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956799  
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-SB9B-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

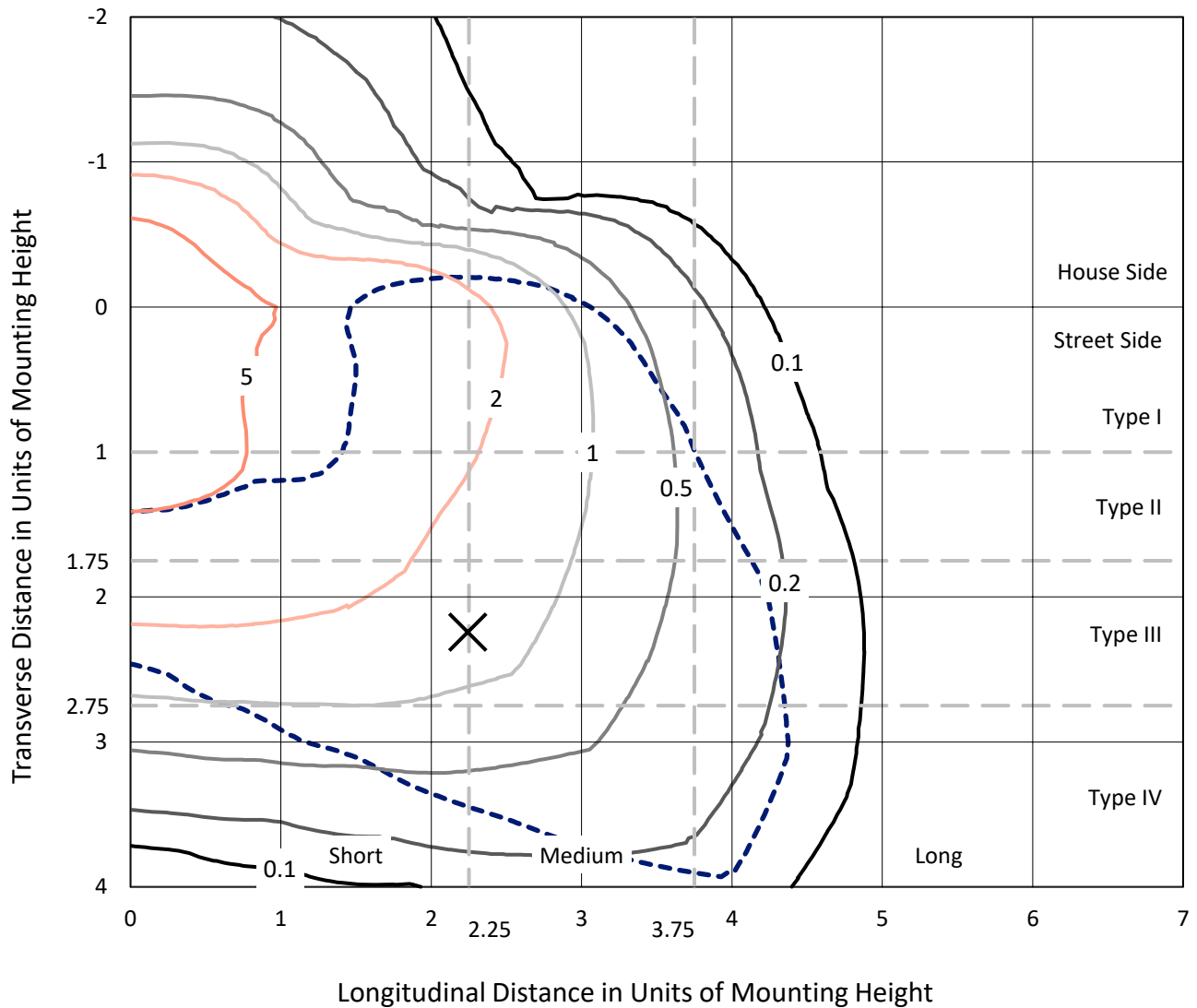
Lumens per Lamp: N/A  
Luminaire Lumens: 45996 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

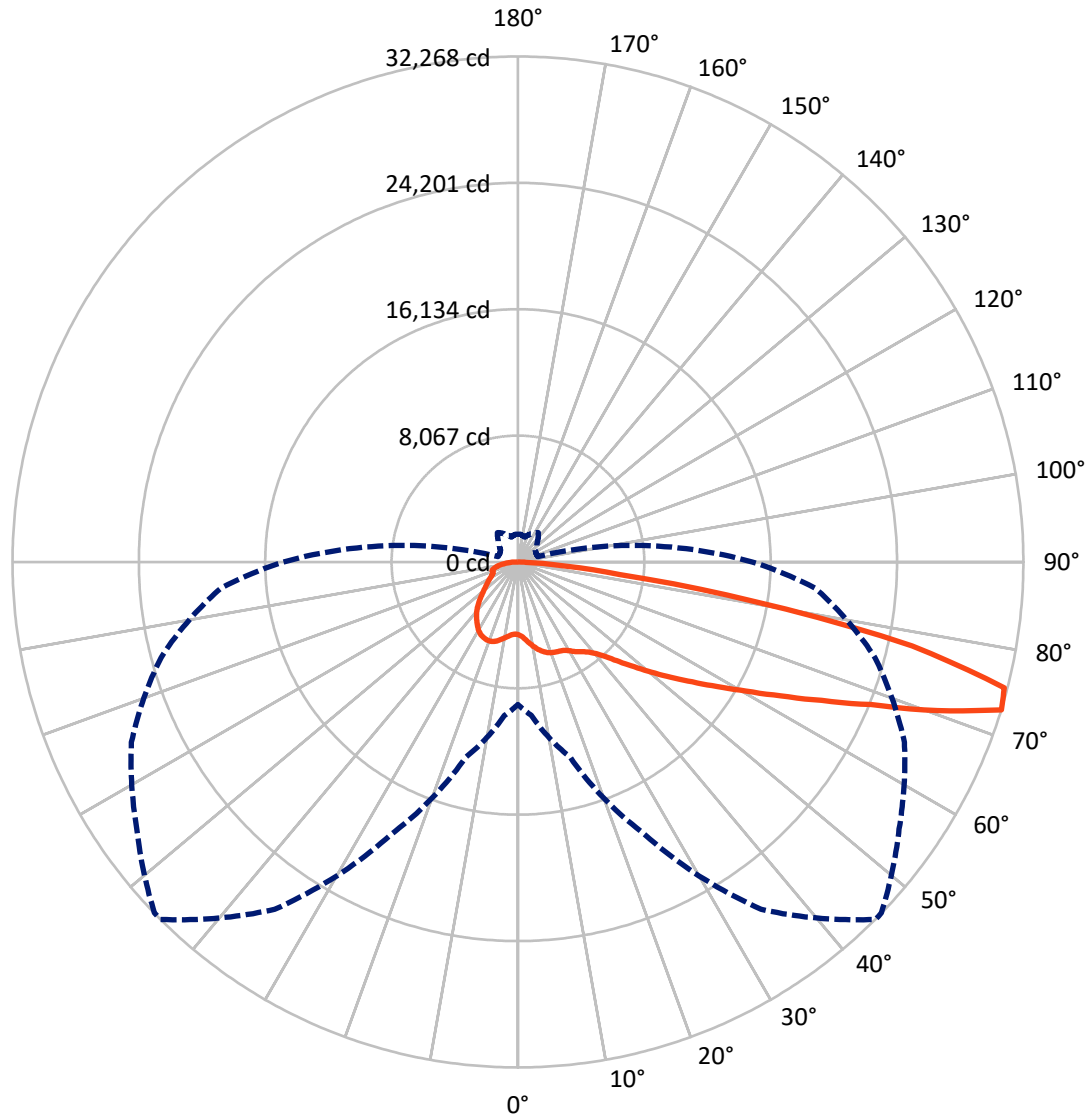
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	10398.1	0.0	10398.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	35597.9	0.0	35597.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	45996.0	0.0	45996.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.3	1.0
10°-20°	1574.6	3.4
20°-30°	2739.1	6.0
30°-40°	3926.7	8.5
40°-50°	5529.0	12.0
50°-60°	8468.8	18.4
60°-70°	12268.3	26.7
70°-80°	9797.0	21.3
80°-90°	1220.2	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°	45996.0	100.0
0°-180°	45996.0	100.0



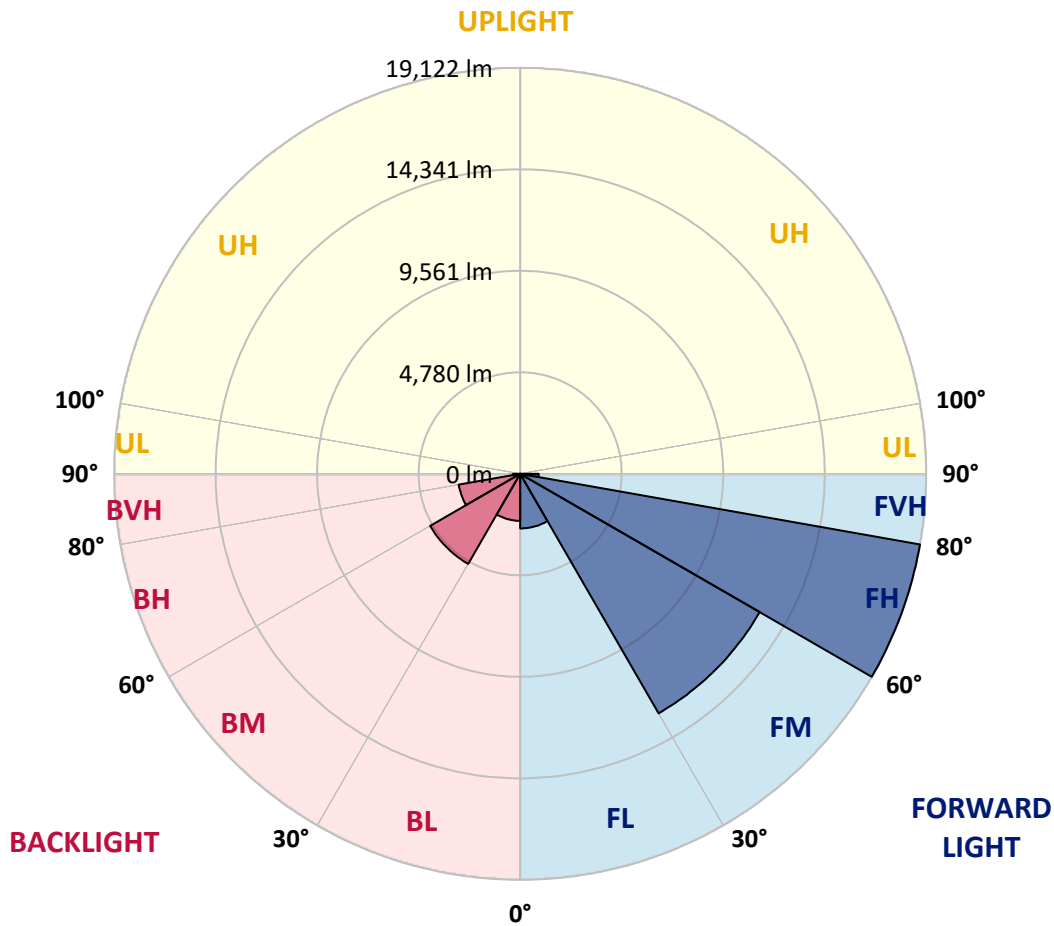
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.2	5.6			
FM (30°-60°)	13028.5	28.3			
FH (60°-80°)	19121.9	41.6			G5
FVH (80°-90°)	875.4	1.9			G5
BL (0°-30°)	2213.8	4.8	B3/2500		
BM (30°-60°)	4896.0	10.6	B3/5000		
BH (60°-80°)	2943.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	344.8	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°	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1
2.5°	4821.8	4853.3	4824.3	4797.6	4785.5	4754.0	4751.6	4732.2	4720.1	4686.1
5°	5158.6	5199.8	5151.4	5098.1	5049.6	4972.1	4962.4	4906.6	4843.6	4770.9
7.5°	5539.0	5575.4	5519.7	5439.7	5354.9	5226.5	5224.1	5122.3	5022.9	4899.4
10°	5871.0	5919.5	5844.3	5735.3	5628.7	5483.3	5466.4	5350.0	5224.1	5064.1
12.5°	6164.2	6198.1	6125.4	5992.2	5868.6	5723.2	5701.4	5573.0	5432.4	5250.7
15°	6396.8	6440.4	6343.5	6200.5	6069.7	5926.7	5907.3	5791.0	5650.5	5459.1
17.5°	6549.4	6585.8	6486.4	6326.5	6200.5	6081.8	6067.3	5970.3	5846.8	5652.9
20°	6607.6	6646.4	6542.2	6379.8	6263.5	6171.5	6164.2	6093.9	6009.1	5832.2
22.5°	6665.8	6702.1	6566.4	6396.8	6295.0	6236.9	6234.5	6188.4	6154.5	6009.1
25°	6900.8	6910.5	6728.8	6484.0	6338.6	6287.8	6285.3	6282.9	6297.5	6183.6
27.5°	7104.3	7101.9	6946.8	6716.6	6491.3	6384.7	6382.3	6406.5	6452.5	6358.0
30°	7402.4	7375.7	7191.6	6951.7	6745.7	6580.9	6566.4	6544.6	6580.9	6505.8
32.5°	8034.8	7950.0	7651.9	7225.5	6956.5	6830.5	6811.1	6675.4	6690.0	6643.9
35°	8941.0	8829.5	8432.1	7744.0	7218.2	7038.9	7029.2	6857.2	6828.1	6786.9
37.5°	10019.2	9881.1	9418.3	8495.1	7668.9	7281.2	7266.7	7111.6	6992.9	6949.2
40°	11102.3	10927.9	10545.0	9411.0	8332.8	7685.8	7639.8	7404.8	7269.1	7196.4
42.5°	12153.9	12008.5	11681.4	10438.4	9151.8	8277.1	8175.3	7773.1	7671.3	7603.5
45°	13084.4	12953.5	12713.6	11536.0	10111.3	9081.5	8982.2	8325.5	8294.0	8294.0
47.5°	13840.3	13811.3	13556.8	12655.5	11242.9	9997.4	9825.4	9093.6	9178.4	9309.3
50°	14678.7	14598.8	14327.4	13758.0	12573.1	11046.6	10906.1	10036.2	10353.6	10712.2
52.5°	15449.2	15492.8	15190.0	14906.5	14075.4	12216.9	11969.8	11148.4	11834.1	12427.7
55°	16241.6	16244.0	16159.2	16120.4	15650.3	13510.8	13239.4	12485.9	13576.2	14312.8
57.5°	16985.4	16990.3	17116.3	17457.9	17477.3	15003.4	14695.7	14128.7	15512.2	16263.4
60°	17649.3	17683.3	18027.3	18826.9	19083.8	16714.1	16423.3	16069.5	17513.7	18269.6
62.5°	17872.3	17995.8	18761.5	19897.9	20670.9	18812.4	18526.5	18315.7	19616.8	20319.5
65°	17494.3	17777.8	19258.2	20782.3	22304.0	21305.7	21022.2	20792.0	21802.4	22463.9
67.5°	16566.3	16932.1	19229.2	21710.3	24286.0	24305.4	24041.3	23501.0	24145.5	24399.9
70°	14121.4	14669.0	17535.5	22056.8	26561.2	28407.6	28153.2	26762.4	26483.7	25252.8
72.5°	9098.5	9835.1	12912.3	19204.9	27067.7	32267.5	32252.9	29706.3	27222.7	23595.5
75°	3319.6	3770.2	5999.4	12054.6	22720.7	32071.2	32165.7	29202.3	24850.6	18226.0
77.5°	1209.1	1323.0	1957.8	4632.8	13973.6	25732.6	25928.8	23345.9	17688.1	9146.9
80°	634.8	697.8	1003.1	1797.9	5987.3	15282.0	15589.8	13874.3	8313.4	2755.0
82.5°	351.3	380.4	562.1	976.5	2696.8	6534.9	6719.1	5480.9	2924.6	1167.9
85°	189.0	201.1	264.1	533.1	1318.1	2265.5	2316.4	1638.0	1165.5	685.7
87.5°	55.7	67.8	87.2	169.6	516.1	508.8	521.0	324.7	460.4	346.5
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°
4640.1	0°	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1	4640.1
4676.4	2.5°	4661.9	4654.6	4628.0	4615.9	4601.3	4598.9	4611.0	4613.4	4615.9	4618.3
4729.8	5°	4705.5	4681.3	4657.1	4642.5	4647.4	4649.8	4674.0	4691.0	4703.1	4712.8
4829.1	7.5°	4790.3	4770.9	4729.8	4727.3	4734.6	4756.4	4787.9	4826.7	4848.5	4865.4
4957.5	10°	4916.3	4880.0	4831.5	4838.8	4853.3	4884.8	4950.2	4981.7	5018.1	5049.6
5115.0	12.5°	5044.7	5013.2	4957.5	4962.4	4986.6	5042.3	5105.3	5144.1	5168.3	5192.6
5284.6	15°	5211.9	5156.2	5095.6	5095.6	5139.2	5199.8	5228.9	5260.4	5274.9	5301.6
5466.4	17.5°	5384.0	5311.3	5231.3	5226.5	5279.8	5308.9	5325.8	5330.7	5335.5	5364.6
5643.2	20°	5556.0	5476.0	5362.2	5352.5	5364.6	5359.7	5357.3	5352.5	5359.7	5396.1
5825.0	22.5°	5725.6	5633.5	5476.0	5432.4	5398.5	5352.5	5350.0	5347.6	5352.5	5388.8
6021.2	25°	5924.3	5812.8	5602.0	5471.2	5357.3	5294.3	5301.6	5304.0	5308.9	5337.9
6224.8	27.5°	6140.0	6016.4	5718.3	5459.1	5253.1	5209.5	5197.4	5204.7	5221.6	5267.7
6428.3	30°	6355.6	6210.2	5825.0	5410.6	5122.3	5061.7	5022.9	5039.9	5093.2	5139.2
6605.2	32.5°	6551.9	6406.5	5909.8	5304.0	4955.1	4860.6	4809.7	4831.5	4884.8	4901.8
6801.4	35°	6782.1	6617.3	5946.1	5134.4	4773.4	4628.0	4560.1	4528.6	4555.3	4538.3
7031.6	37.5°	7038.9	6866.9	5941.3	4911.5	4560.1	4393.0	4298.5	4179.7	4124.0	4065.8
7370.9	40°	7419.3	7172.2	5883.1	4642.5	4296.0	4143.4	3973.8	3772.7	3646.7	3532.8
7918.5	42.5°	7937.8	7596.2	5776.5	4346.9	3998.0	3855.0	3624.9	3389.8	3191.1	3002.1
8749.6	45°	8710.8	8151.1	5643.2	4031.9	3675.7	3535.2	3285.6	3021.5	2796.2	2553.9
9929.6	47.5°	9825.4	8897.4	5517.2	3673.3	3336.5	3208.1	2982.7	2738.0	2471.5	2236.5
11635.4	50°	11356.7	9968.3	5400.9	3324.4	3002.1	2905.2	2725.9	2476.3	2207.4	2018.4
13634.4	52.5°	13304.9	11424.6	5352.5	2987.6	2689.6	2653.2	2510.3	2277.6	2023.2	1863.3
15965.3	55°	15541.3	13166.7	5352.5	2665.3	2415.8	2427.9	2328.5	2112.9	1892.4	1749.4
18369.0	57.5°	17823.8	14930.7	5255.6	2367.3	2183.1	2234.0	2171.0	1982.0	1783.3	1635.5
20896.2	60°	19927.0	16408.8	4863.0	2095.9	1977.2	2057.2	2016.0	1853.6	1611.3	1487.7
23009.1	62.5°	21543.2	17242.3	4107.0	1880.3	1807.6	1899.7	1877.8	1684.0	1579.8	1528.9
24744.0	65°	22352.4	17106.6	3140.2	1688.9	1664.6	1807.6	1761.5	1754.3	1671.9	1613.7
25308.5	67.5°	21855.7	15938.7	2277.6	1548.3	1582.2	1722.8	1899.7	1928.7	1776.1	1662.2
23719.0	70°	19677.4	13825.8	1696.1	1415.0	1478.0	1725.2	2166.2	2018.4	1742.2	1608.9
19023.2	72.5°	14969.5	10310.0	1315.7	1274.5	1342.4	1737.3	2284.9	1977.2	1645.2	1778.5
11851.0	75°	8560.6	5660.2	1056.4	1102.5	1172.7	1623.4	2224.3	1870.6	1570.1	1633.1
4695.8	77.5°	3263.8	2175.9	872.3	932.9	942.6	1417.5	2127.4	1863.3	1495.0	1458.7
1407.8	80°	1131.6	850.5	722.1	741.4	729.3	1260.0	2040.2	1621.0	1223.6	1095.2
581.5	82.5°	462.8	424.0	571.8	547.6	518.5	978.9	1647.7	1325.4	1000.7	884.4
281.1	85°	201.1	269.0	378.0	332.0	300.5	678.4	1320.6	1121.9	845.6	729.3
92.1	87.5°	41.2	101.8	159.9	150.2	155.1	453.1	937.7	797.2	598.5	448.3
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°  
4640.1  
4628.0  
4717.6  
4870.3  
5042.3  
5202.2  
5311.3  
5374.3  
5410.6  
5413.0  
5376.7  
5313.7  
5190.1  
4962.4  
4591.6  
4102.2  
3540.0  
2985.2  
2524.8  
2209.8  
2006.3  
1851.2  
1734.9  
1611.3  
1468.4  
1512.0  
1594.4  
1642.8  
1587.1  
*1764.0*  
1633.1  
1330.2  
1058.9  
874.7  
726.9  
351.3  
0.0

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