

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: P954279

Luminaire Tested: **GALN-SB7C-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954279  
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-SB7C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

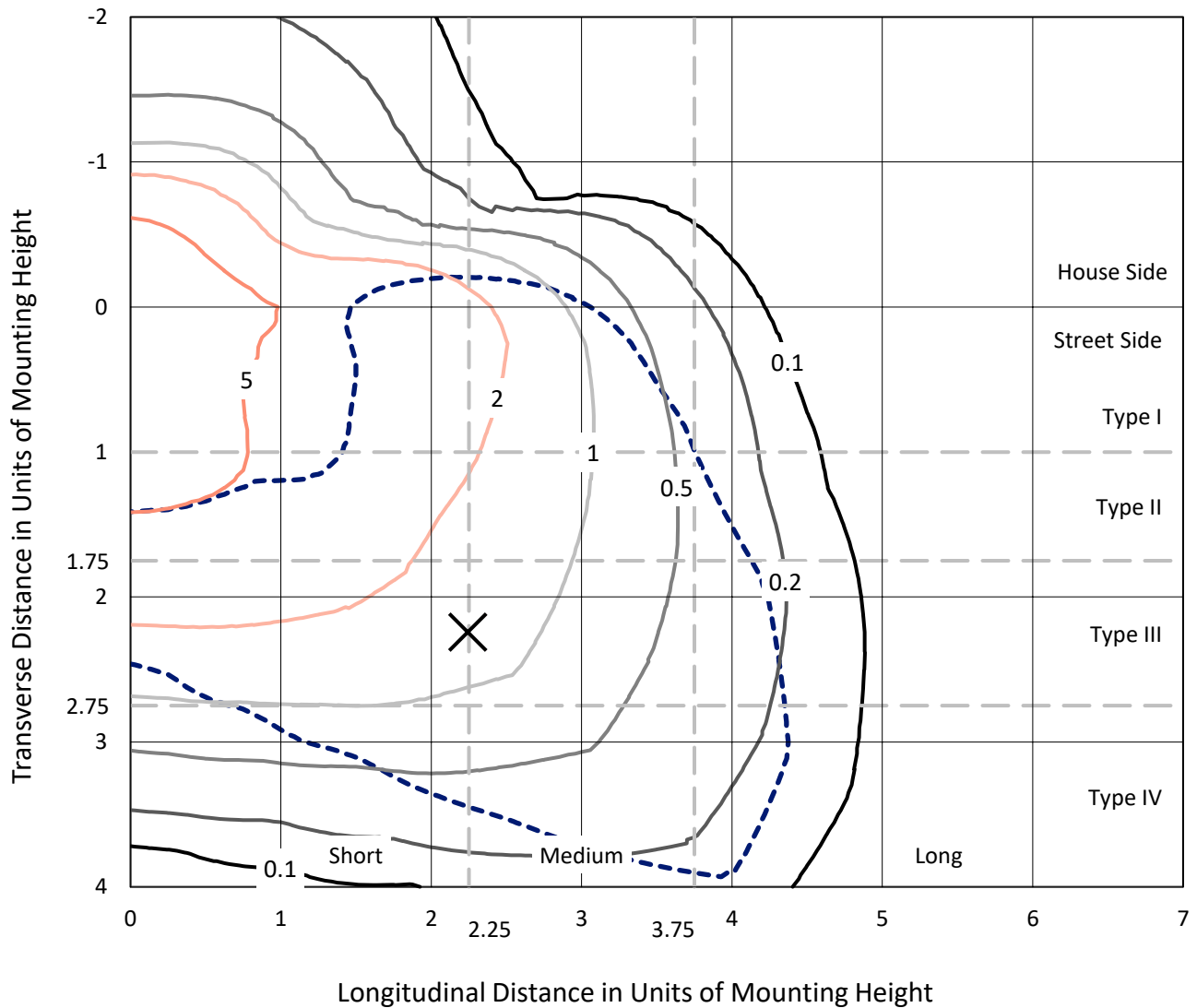
Lumens per Lamp: N/A  
Luminaire Lumens: 46223 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

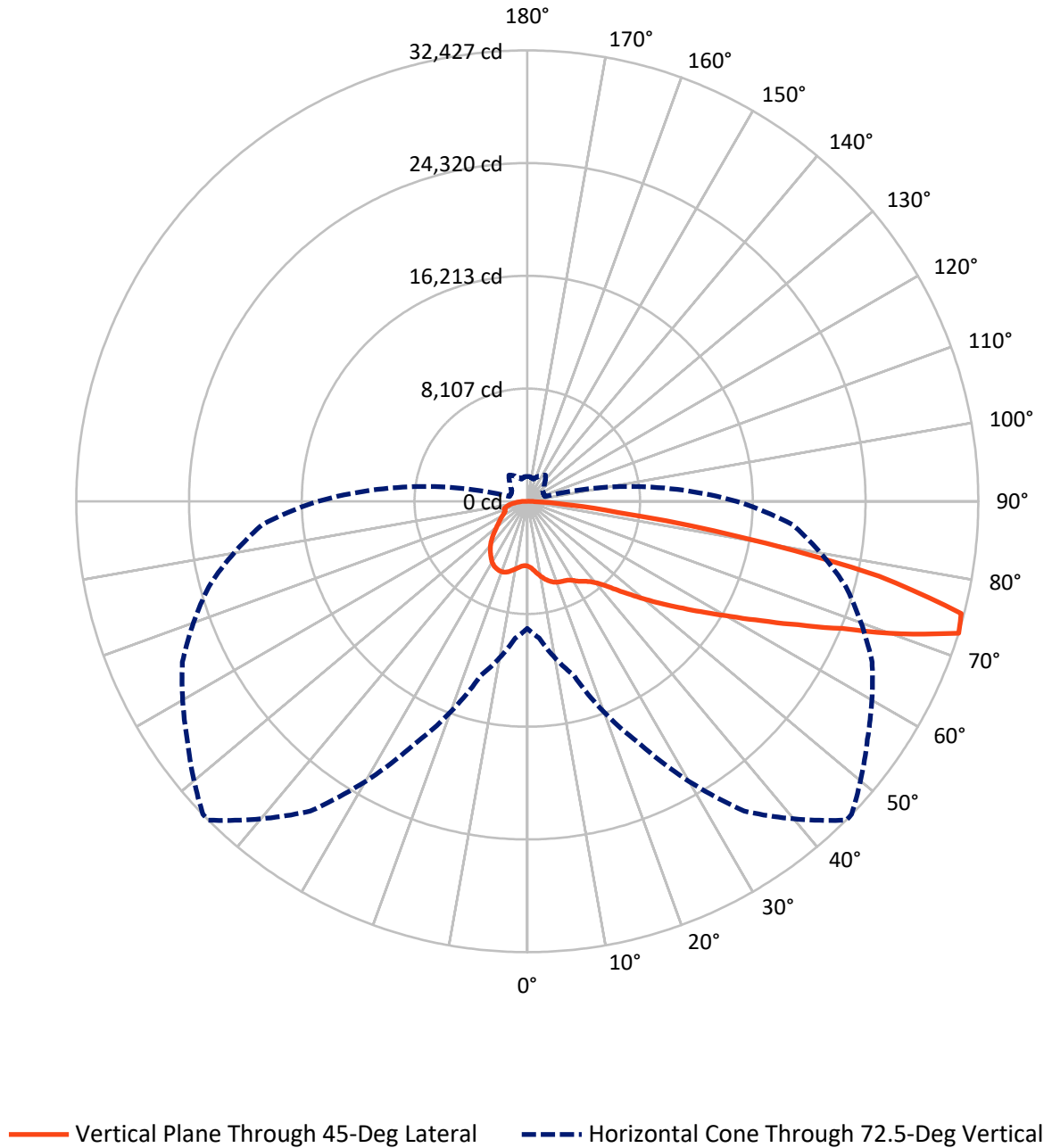
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10449.4	0.0	10449.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	35773.6	0.0	35773.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	46223.0	0.0	46223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.6	1.0
10°-20°	1582.4	3.4
20°-30°	2752.6	6.0
30°-40°	3946.1	8.5
40°-50°	5556.3	12.0
50°-60°	8510.6	18.4
60°-70°	12328.9	26.7
70°-80°	9845.3	21.3
80°-90°	1226.2	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°	46223.0	100.0
0°-180°	46223.0	100.0

**Coefficient of Utilization**



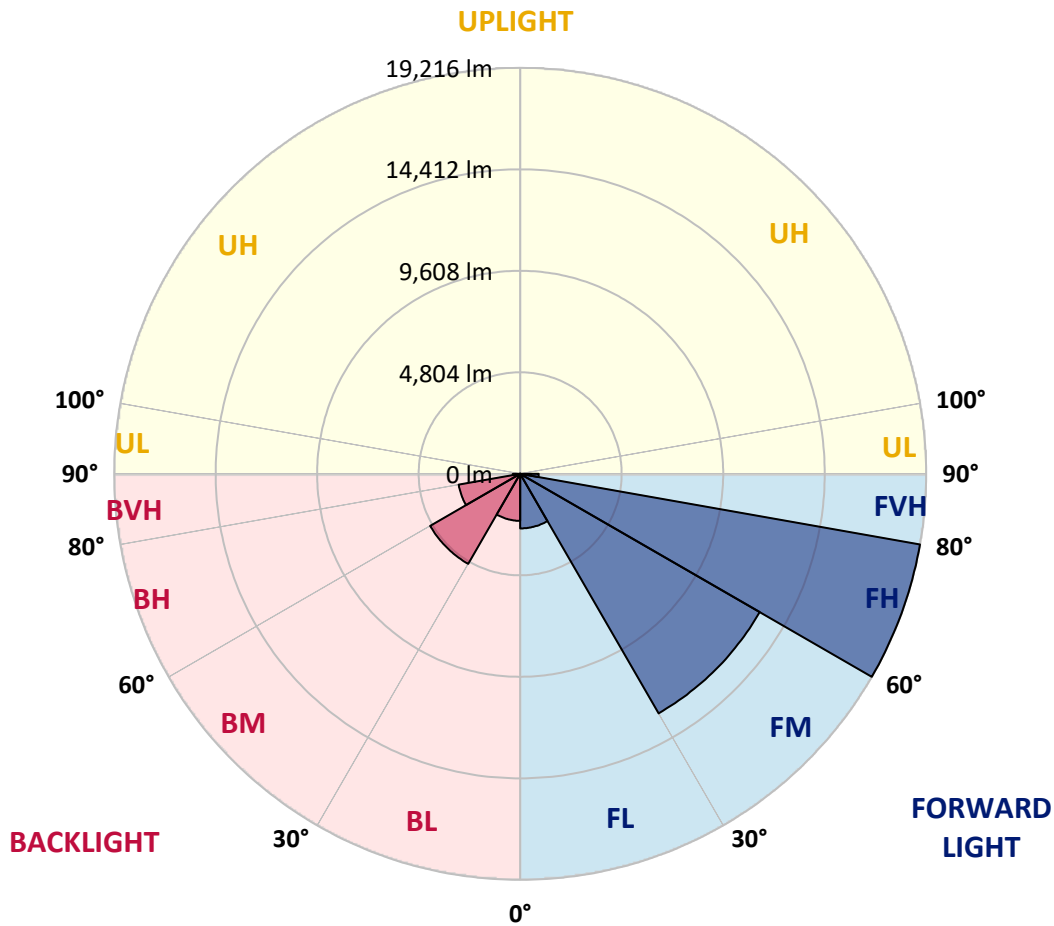
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.9	5.6			
FM (30°-60°)	13092.8	28.3			
FH (60°-80°)	19216.3	41.6			G5
FVH (80°-90°)	879.7	1.9			G5
BL (0°-30°)	2224.8	4.8	B3/2500		
BM (30°-60°)	4920.2	10.6	B3/5000		
BH (60°-80°)	2958.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	346.5	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°	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0
2.5°	4845.6	4877.3	4848.1	4821.3	4809.1	4777.4	4775.0	4755.5	4743.4	4709.3
5°	5184.1	5225.5	5176.8	5123.2	5074.5	4996.6	4986.9	4930.8	4867.5	4794.5
7.5°	5566.4	5602.9	5546.9	5466.5	5381.3	5252.3	5249.8	5147.6	5047.7	4923.5
10°	5900.0	5948.7	5873.2	5763.6	5656.5	5510.4	5493.3	5376.5	5249.8	5089.1
12.5°	6194.6	6228.7	6155.6	6021.7	5897.5	5751.4	5729.5	5600.5	5459.2	5276.6
15°	6428.4	6472.2	6374.8	6231.1	6099.6	5956.0	5936.5	5819.6	5678.4	5486.0
17.5°	6581.8	6618.3	6518.5	6357.8	6231.1	6111.8	6097.2	5999.8	5875.6	5680.8
20°	6640.2	6679.2	6574.5	6411.3	6294.4	6201.9	6194.6	6124.0	6038.8	5861.0
22.5°	6698.7	6735.2	6598.8	6428.4	6326.1	6267.7	6265.2	6219.0	6184.9	6038.8
25°	6934.8	6944.6	6762.0	6516.0	6369.9	6318.8	6316.4	6313.9	6328.5	6214.1
27.5°	7139.4	7136.9	6981.1	6749.8	6523.3	6416.2	6413.8	6438.1	6484.4	6389.4
30°	7438.9	7412.1	7227.0	6986.0	6779.0	6613.4	6598.8	6576.9	6613.4	6537.9
32.5°	8074.4	7989.2	7689.7	7261.1	6990.8	6864.2	6844.7	6708.4	6723.0	6676.7
35°	8985.1	8873.1	8473.8	7782.2	7253.8	7073.6	7063.9	6891.0	6861.8	6820.4
37.5°	10068.7	9929.9	9464.8	8537.1	7706.7	7317.1	7302.5	7146.7	7027.4	6983.5
40°	11157.1	10981.8	10597.1	9457.5	8373.9	7723.8	7677.5	7441.3	7305.0	7231.9
42.5°	12213.9	12067.8	11739.1	10489.9	9196.9	8317.9	8215.6	7811.4	7709.2	7641.0
45°	13148.9	13017.4	12776.4	11593.0	10161.2	9126.3	9026.5	8366.6	8335.0	8335.0
47.5°	13908.6	13879.4	13623.8	12717.9	11298.3	10046.8	9873.9	9138.5	9223.7	9355.2
50°	14751.2	14670.8	14398.1	13825.9	12635.2	11101.1	10959.9	10085.7	10404.7	10765.1
52.5°	15525.5	15569.3	15264.9	14980.0	14144.8	12277.2	12028.8	11203.4	11892.5	12489.1
55°	16321.7	16324.2	16238.9	16200.0	15727.6	13577.5	13304.8	12547.5	13643.2	14383.5
57.5°	17069.3	17074.1	17200.8	17544.1	17563.6	15077.4	14768.2	14198.4	15588.8	16343.6
60°	17736.4	17770.5	18116.3	18919.9	19178.0	16796.5	16504.3	16148.8	17600.1	18359.8
62.5°	17960.5	18084.7	18854.1	19996.1	20772.9	18905.2	18617.9	18406.1	19713.7	20419.8
65°	17580.6	17865.5	19353.3	20884.9	22414.1	21410.8	21126.0	20894.6	21910.0	22574.8
67.5°	16648.0	17015.7	19324.1	21817.5	24405.9	24425.4	24159.9	23616.9	24264.7	24520.3
70°	14191.1	14741.4	17622.0	22165.7	26692.3	28547.8	28292.1	26894.4	26614.4	25377.4
72.5°	9143.4	9883.6	12976.0	19299.7	27201.2	32426.7	32412.1	29852.9	27357.1	23711.9
75°	3335.9	3788.8	6029.0	12114.1	22832.9	32229.5	32324.5	29346.5	24973.2	18316.0
77.5°	1215.1	1329.5	1967.5	4655.7	14042.6	25859.6	26056.8	23461.1	17775.4	9192.1
80°	638.0	701.3	1008.1	1806.8	6016.9	15357.5	15666.7	13942.7	8354.4	2768.6
82.5°	353.1	382.3	564.9	981.3	2710.1	6567.2	6752.2	5507.9	2939.0	1173.7
85°	189.9	202.1	265.4	535.7	1324.6	2276.7	2327.8	1646.1	1171.2	689.1
87.5°	56.0	68.2	87.7	170.4	518.7	511.3	523.5	326.3	462.6	348.2
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°
4663.0	0°	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0	4663.0
4699.5	2.5°	4684.9	4677.6	4650.8	4638.7	4624.0	4621.6	4633.8	4636.2	4638.7	4641.1
4753.1	5°	4728.7	4704.4	4680.0	4665.4	4670.3	4672.7	4697.1	4714.1	4726.3	4736.1
4852.9	7.5°	4814.0	4794.5	4753.1	4750.7	4758.0	4779.9	4811.5	4850.5	4872.4	4889.5
4982.0	10°	4940.6	4904.1	4855.4	4862.7	4877.3	4908.9	4974.7	5006.3	5042.9	5074.5
5140.3	12.5°	5069.6	5038.0	4982.0	4986.9	5011.2	5067.2	5130.5	5169.5	5193.8	5218.2
5310.7	15°	5237.7	5181.7	5120.8	5120.8	5164.6	5225.5	5254.7	5286.4	5301.0	5327.8
5493.3	17.5°	5410.5	5337.5	5257.1	5252.3	5305.8	5335.1	5352.1	5357.0	5361.8	5391.1
5671.1	20°	5583.4	5503.1	5388.6	5378.9	5391.1	5386.2	5383.8	5378.9	5386.2	5422.7
5853.7	22.5°	5753.9	5661.3	5503.1	5459.2	5425.2	5378.9	5376.5	5374.0	5378.9	5415.4
6050.9	25°	5953.5	5841.5	5629.7	5498.2	5383.8	5320.4	5327.8	5330.2	5335.1	5364.3
6255.5	27.5°	6170.3	6046.1	5746.6	5486.0	5279.1	5235.2	5223.0	5230.4	5247.4	5293.7
6460.0	30°	6387.0	6240.9	5853.7	5437.3	5147.6	5086.7	5047.7	5064.8	5118.3	5164.6
6637.8	32.5°	6584.2	6438.1	5938.9	5330.2	4979.5	4884.6	4833.5	4855.4	4908.9	4926.0
6835.0	35°	6815.5	6650.0	5975.5	5159.7	4796.9	4650.8	4582.6	4551.0	4577.8	4560.7
7066.3	37.5°	7073.6	6900.8	5970.6	4935.7	4582.6	4414.6	4319.7	4200.4	4144.3	4085.9
7407.2	40°	7455.9	7207.6	5912.1	4665.4	4317.2	4163.8	3993.4	3791.3	3664.7	3550.2
7957.5	42.5°	7977.0	7633.7	5805.0	4368.4	4017.7	3874.1	3642.7	3406.5	3206.9	3016.9
8792.7	45°	8753.8	8191.3	5671.1	4051.8	3693.9	3552.6	3301.8	3036.4	2810.0	2566.5
9978.6	47.5°	9873.9	8941.3	5544.5	3691.4	3353.0	3223.9	2997.5	2751.5	2483.7	2247.5
11692.8	50°	11412.8	10017.5	5427.6	3340.8	3016.9	2919.5	2739.4	2488.6	2218.3	2028.3
13701.7	52.5°	13370.5	11481.0	5378.9	3002.3	2702.8	2666.3	2522.6	2288.9	2033.2	1872.5
16044.1	55°	15618.0	13231.7	5378.9	2678.5	2427.7	2439.9	2340.0	2123.3	1901.7	1758.1
18459.6	57.5°	17911.8	15004.4	5281.5	2379.0	2193.9	2245.1	2181.7	1991.8	1792.2	1643.6
20999.3	60°	20025.3	16489.7	4887.0	2106.3	1986.9	2067.3	2025.9	1862.8	1619.3	1495.1
23122.6	62.5°	21649.5	17327.4	4127.3	1889.6	1816.5	1909.0	1887.1	1692.3	1587.6	1536.5
24866.1	65°	22462.8	17191.0	3155.7	1697.2	1672.8	1816.5	1770.2	1762.9	1680.1	1621.7
25433.4	67.5°	21963.6	16017.3	2288.9	1556.0	1590.0	1731.3	1909.0	1938.3	1784.8	1670.4
23836.1	70°	19774.5	13894.0	1704.5	1422.0	1485.3	1733.7	2176.9	2028.3	1750.8	1616.8
19117.1	72.5°	15043.4	10360.9	1322.2	1280.8	1349.0	1745.9	2296.2	1986.9	1653.4	1787.3
11909.5	75°	8602.8	5688.1	1061.7	1107.9	1178.5	1631.4	2235.3	1879.8	1577.9	1641.2
4719.0	77.5°	3279.9	2186.6	876.6	937.5	947.2	1424.5	2137.9	1872.5	1502.4	1465.9
1414.7	80°	1137.1	854.7	725.6	745.1	732.9	1266.2	2050.3	1629.0	1229.7	1100.6
584.4	82.5°	465.1	426.1	574.7	550.3	521.1	983.7	1655.8	1331.9	1005.6	888.8
282.5	85°	202.1	270.3	379.9	333.6	301.9	681.8	1327.1	1127.4	849.8	732.9
92.5	87.5°	41.4	102.3	160.7	151.0	155.8	455.3	942.3	801.1	601.4	450.5
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°  
4663.0  
4650.8  
4740.9  
4894.3  
5067.2  
5227.9  
5337.5  
5400.8  
5437.3  
5439.8  
5403.2  
5339.9  
5215.7  
4986.9  
4614.3  
4122.4  
3557.5  
2999.9  
2537.3  
2220.7  
2016.2  
1860.3  
1743.5  
1619.3  
1475.6  
1519.4  
1602.2  
1650.9  
1594.9  
1772.7  
1641.2  
1336.8  
1064.1  
879.0  
730.5  
353.1  
0.0

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