

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: P955287

Luminaire Tested: **GALN-SB8B-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955287
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-SB8B-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48079 lumens
Efficiency: N/A
Efficacy: 164.2 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

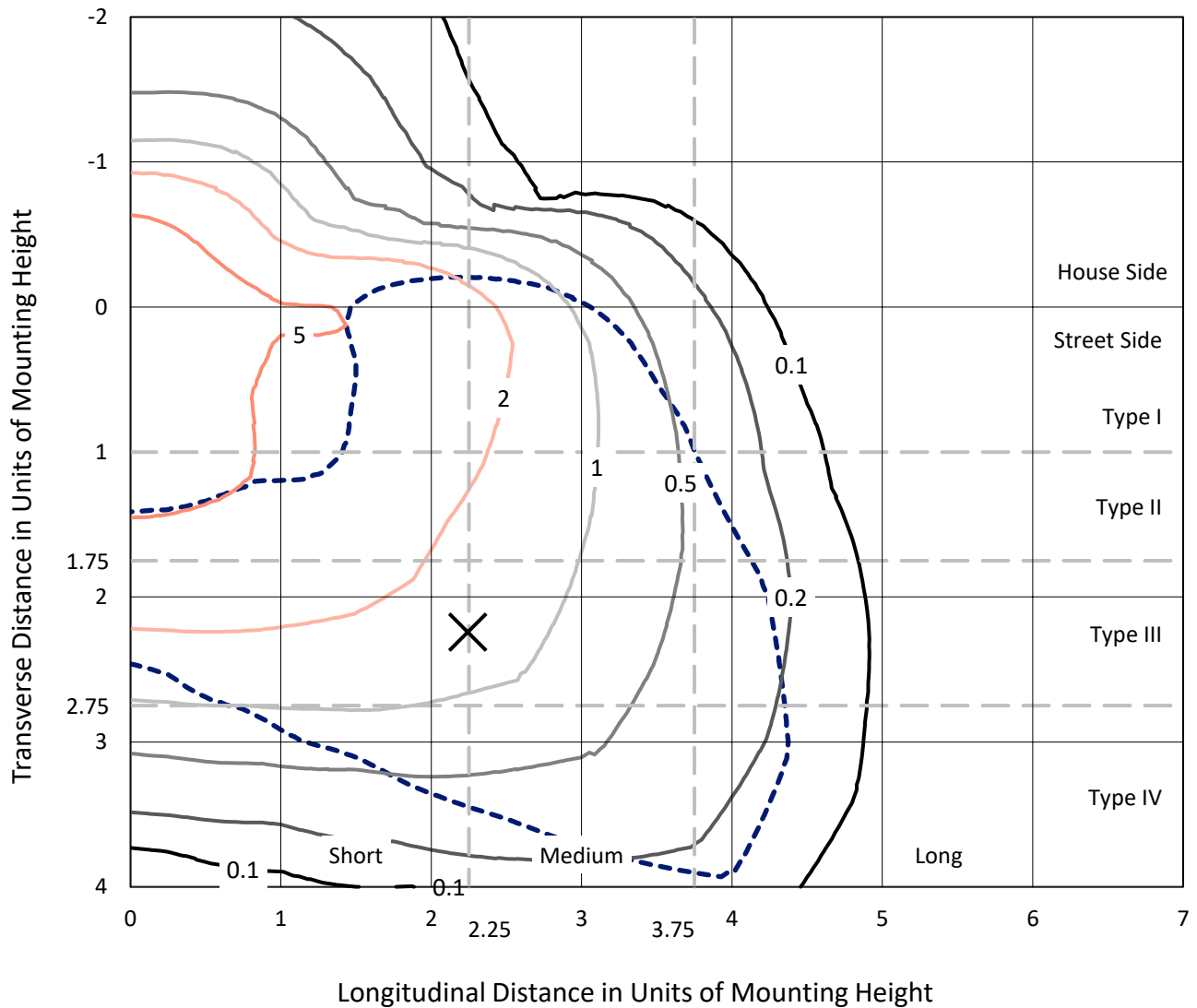
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

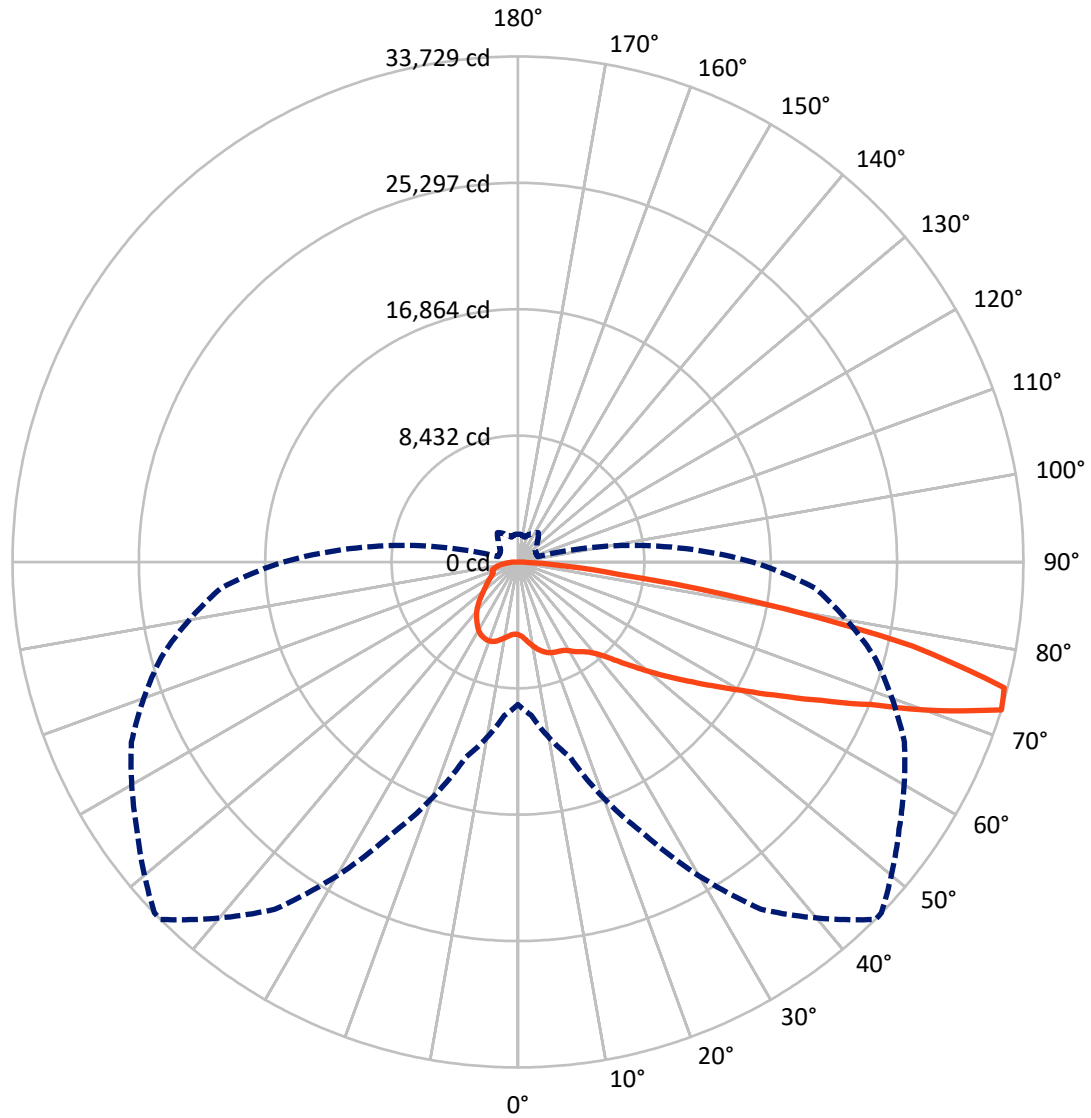
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	10869.0	0.0	10869.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	37210.0	0.0	37210.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	48079.0	0.0	48079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	1.0
10°-20°	1645.9	3.4
20°-30°	2863.2	6.0
30°-40°	4104.5	8.5
40°-50°	5779.4	12.0
50°-60°	8852.3	18.4
60°-70°	12823.9	26.7
70°-80°	10240.7	21.3
80°-90°	1275.4	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°	48079.0	100.0
0°-180°	48079.0	100.0

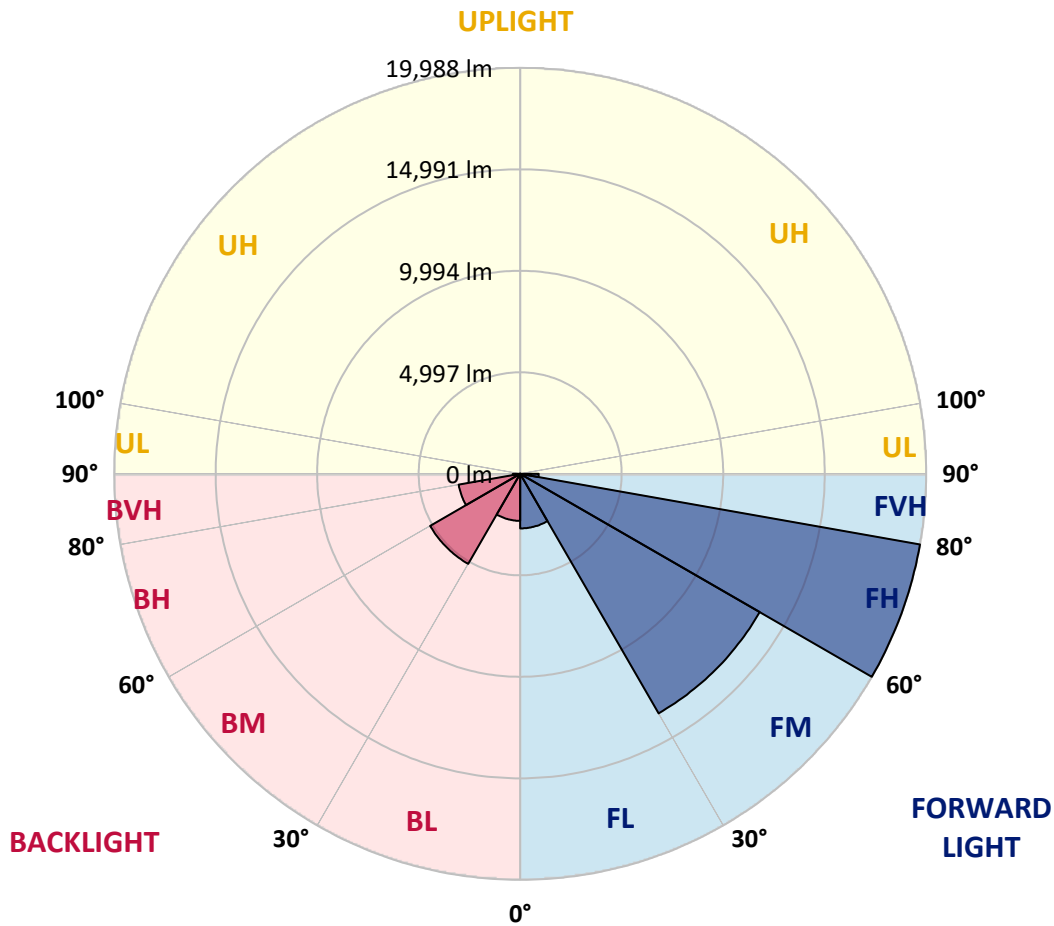


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.6	5.6			
FM (30°-60°)	13618.5	28.3			
FH (60°-80°)	19987.9	41.6			G5
FVH (80°-90°)	915.0	1.9			G5
BL (0°-30°)	2314.1	4.8	B3/2500		
BM (30°-60°)	5117.8	10.6	B4/8500		
BH (60°-80°)	3076.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	360.4	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°	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2
2.5°	5040.2	5073.1	5042.7	5014.9	5002.2	4969.3	4966.7	4946.5	4933.8	4898.4
5°	5392.2	5435.3	5384.6	5328.9	5278.3	5197.2	5187.1	5128.8	5063.0	4987.0
7.5°	5789.9	5827.9	5769.6	5686.0	5597.4	5463.2	5460.6	5354.3	5250.4	5121.2
10°	6136.9	6187.5	6109.0	5995.0	5883.6	5731.6	5713.9	5592.3	5460.6	5293.5
12.5°	6443.3	6478.8	6402.8	6263.5	6134.3	5982.4	5959.6	5825.3	5678.4	5488.5
15°	6686.5	6732.1	6630.8	6481.3	6344.6	6195.1	6174.9	6053.3	5906.4	5706.3
17.5°	6846.1	6884.0	6780.2	6613.0	6481.3	6357.2	6342.0	6240.7	6111.5	5908.9
20°	6906.8	6947.4	6838.5	6668.8	6547.2	6450.9	6443.3	6369.9	6281.2	6096.4
22.5°	6967.6	7005.6	6863.8	6686.5	6580.1	6519.3	6516.8	6468.7	6433.2	6281.2
25°	7213.3	7223.4	7033.5	6777.7	6625.7	6572.5	6570.0	6567.4	6582.6	6463.6
27.5°	7426.1	7423.5	7261.4	7020.8	6785.3	6673.8	6671.3	6696.6	6744.7	6646.0
30°	7737.6	7709.7	7517.2	7266.5	7051.2	6879.0	6863.8	6841.0	6879.0	6800.5
32.5°	8398.6	8310.0	7998.5	7552.7	7271.6	7139.9	7119.6	6977.8	6993.0	6944.8
35°	9345.9	9229.4	8814.0	8094.7	7545.1	7357.7	7347.5	7167.7	7137.3	7094.3
37.5°	10473.0	10328.6	9844.8	8879.9	8016.2	7610.9	7595.7	7433.7	7309.5	7264.0
40°	11605.1	11422.7	11022.6	9837.2	8710.2	8033.9	7985.8	7740.1	7598.3	7522.3
42.5°	12704.3	12552.4	12210.4	10911.1	9566.2	8651.9	8545.5	8125.1	8018.7	7947.8
45°	13676.9	13540.1	13289.4	12058.5	10569.2	9492.8	9388.9	8702.6	8669.6	8669.6
47.5°	14467.1	14436.7	14170.8	13228.6	11752.0	10450.2	10270.3	9505.4	9594.1	9730.9
50°	15343.5	15259.9	14976.2	14381.0	13142.5	11546.9	11400.0	10490.7	10822.5	11197.3
52.5°	16148.9	16194.5	15877.9	15581.5	14712.8	12770.2	12511.8	11653.2	12370.0	12990.5
55°	16977.1	16979.6	16891.0	16850.5	16359.1	14122.7	13839.0	13051.3	14191.1	14961.0
57.5°	17754.6	17759.7	17891.4	18248.5	18268.8	15682.8	15361.2	14768.5	16214.7	16999.9
60°	18448.6	18484.1	18843.7	19679.5	19948.0	17471.0	17167.0	16797.3	18306.8	19097.0
62.5°	18681.6	18810.8	19611.2	20799.0	21607.0	19664.3	19365.5	19145.1	20505.2	21239.7
65°	18286.5	18582.9	20130.4	21723.5	23314.1	22270.6	21974.2	21733.6	22789.8	23481.2
67.5°	17316.5	17698.9	20100.0	22693.5	25385.9	25406.1	25130.0	24565.2	25239.0	25504.9
70°	14760.9	15333.3	18329.6	23055.7	27764.1	29694.1	29428.1	27974.3	27683.1	26396.4
72.5°	9510.5	10280.5	13497.1	20074.7	28293.5	33728.8	33713.6	31051.6	28455.6	24664.0
75°	3469.9	3941.0	6271.1	12600.5	23749.7	33523.6	33622.4	30524.8	25976.0	19051.4
77.5°	1263.8	1382.9	2046.5	4842.6	14606.4	26897.9	27103.1	24403.1	18489.1	9561.2
80°	663.6	729.4	1048.6	1879.3	6258.4	15974.1	16295.8	14502.6	8689.9	2879.7
82.5°	367.3	397.6	587.6	1020.7	2819.0	6830.9	7023.3	5729.1	3057.0	1220.8
85°	197.6	210.2	276.1	557.2	1377.8	2368.1	2421.3	1712.1	1218.3	716.8
87.5°	58.3	70.9	91.2	177.3	539.5	531.9	544.5	339.4	481.2	362.2
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°
4850.2	0°	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2	4850.2
4888.2	2.5°	4873.0	4865.4	4837.6	4824.9	4809.7	4807.2	4819.8	4822.4	4824.9	4827.4
4943.9	5°	4918.6	4893.3	4868.0	4852.8	4857.8	4860.4	4885.7	4903.4	4916.1	4926.2
5047.8	7.5°	5007.3	4987.0	4943.9	4941.4	4949.0	4971.8	5004.7	5045.3	5068.1	5085.8
5182.0	10°	5139.0	5101.0	5050.3	5057.9	5073.1	5106.0	5174.4	5207.4	5245.3	5278.3
5346.7	12.5°	5273.2	5240.3	5182.0	5187.1	5212.4	5270.7	5336.5	5377.0	5402.4	5427.7
5523.9	15°	5448.0	5389.7	5326.4	5326.4	5372.0	5435.3	5465.7	5498.6	5513.8	5541.7
5713.9	17.5°	5627.8	5551.8	5468.2	5463.2	5518.9	5549.3	5567.0	5572.1	5577.1	5607.5
5898.8	20°	5807.6	5724.0	5605.0	5594.9	5607.5	5602.5	5599.9	5594.9	5602.5	5640.5
6088.8	22.5°	5984.9	5888.7	5724.0	5678.4	5643.0	5594.9	5592.3	5589.8	5594.9	5632.9
6293.9	25°	6192.6	6076.1	5855.7	5719.0	5599.9	5534.1	5541.7	5544.2	5549.3	5579.7
6506.7	27.5°	6418.0	6288.8	5977.3	5706.3	5491.0	5445.4	5432.8	5440.4	5458.1	5506.2
6719.4	30°	6643.4	6491.5	6088.8	5655.7	5354.3	5290.9	5250.4	5268.1	5323.9	5372.0
6904.3	32.5°	6848.6	6696.6	6177.4	5544.2	5179.5	5080.7	5027.5	5050.3	5106.0	5123.8
7109.5	35°	7089.2	6917.0	6215.4	5366.9	4989.5	4837.6	4766.7	4733.7	4761.6	4743.9
7350.1	37.5°	7357.7	7177.8	6210.3	5133.9	4766.7	4591.9	4493.1	4369.0	4310.8	4250.0
7704.7	40°	7755.3	7497.0	6149.5	4852.8	4490.6	4331.0	4153.7	3943.5	3811.8	3692.8
8277.1	42.5°	8297.3	7940.2	6038.1	4543.8	4179.1	4029.6	3789.0	3543.3	3335.6	3138.1
9145.8	45°	9105.3	8520.2	5898.8	4214.5	3842.2	3695.3	3434.4	3158.4	2922.8	2669.5
10379.3	47.5°	10270.3	9300.3	5767.1	3839.7	3487.6	3353.4	3117.8	2862.0	2583.4	2337.7
12162.3	50°	11871.0	10419.8	5645.5	3474.9	3138.1	3036.8	2849.4	2588.5	2307.3	2109.8
14251.8	52.5°	13907.4	11942.0	5594.9	3122.9	2811.4	2773.4	2623.9	2380.8	2114.9	1947.7
16688.4	55°	16245.1	13763.0	5594.9	2786.0	2525.2	2537.8	2434.0	2208.6	1978.1	1828.7
19200.9	57.5°	18631.0	15606.9	5493.6	2474.5	2282.0	2335.2	2269.4	2071.8	1864.1	1709.6
21842.5	60°	20829.4	17151.9	5083.2	2190.8	2066.7	2150.3	2107.3	1937.6	1684.3	1555.1
24051.1	62.5°	22518.8	18023.1	4293.0	1965.4	1889.4	1985.7	1962.9	1760.3	1651.4	1598.2
25864.5	65°	23364.7	17881.3	3282.5	1765.3	1740.0	1889.4	1841.3	1833.7	1747.6	1686.8
26454.7	67.5°	22845.5	16660.5	2380.8	1618.4	1653.9	1800.8	1985.7	2016.1	1856.5	1737.5
24793.2	70°	20568.5	14451.9	1772.9	1479.1	1545.0	1803.3	2264.3	2109.8	1821.1	1681.8
19884.7	72.5°	15647.4	10776.9	1375.3	1332.2	1403.1	1816.0	2388.4	2066.7	1719.7	1859.0
12387.7	75°	8948.2	5916.5	1104.3	1152.4	1225.9	1696.9	2325.1	1955.3	1641.2	1707.1
4908.5	77.5°	3411.6	2274.4	911.8	975.1	985.2	1481.7	2223.8	1947.7	1562.7	1524.7
1471.5	80°	1182.8	889.0	754.8	775.0	762.4	1317.0	2132.6	1694.4	1279.0	1144.8
607.9	82.5°	483.8	443.2	597.7	572.4	542.0	1023.2	1722.3	1385.4	1046.0	924.5
293.8	85°	210.2	281.1	395.1	347.0	314.1	709.2	1380.4	1172.7	883.9	762.4
96.2	87.5°	43.1	106.4	167.2	157.0	162.1	473.6	980.2	833.3	625.6	468.6
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°
4850.2
4837.6
4931.3
5090.8
5270.7
5437.8
5551.8
5617.7
5655.7
5658.2
5620.2
5554.3
5425.2
5187.1
4799.6
4288.0
3700.4
3120.4
2639.1
2309.9
2097.1
1935.0
1813.5
1684.3
1534.9
1580.4
1666.6
1717.2
1659.0
1843.8
1707.1
1390.5
1106.8
914.3
759.8
367.3
0.0

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