

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: P944225

Luminaire Tested: **GALN-SB9A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35203 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

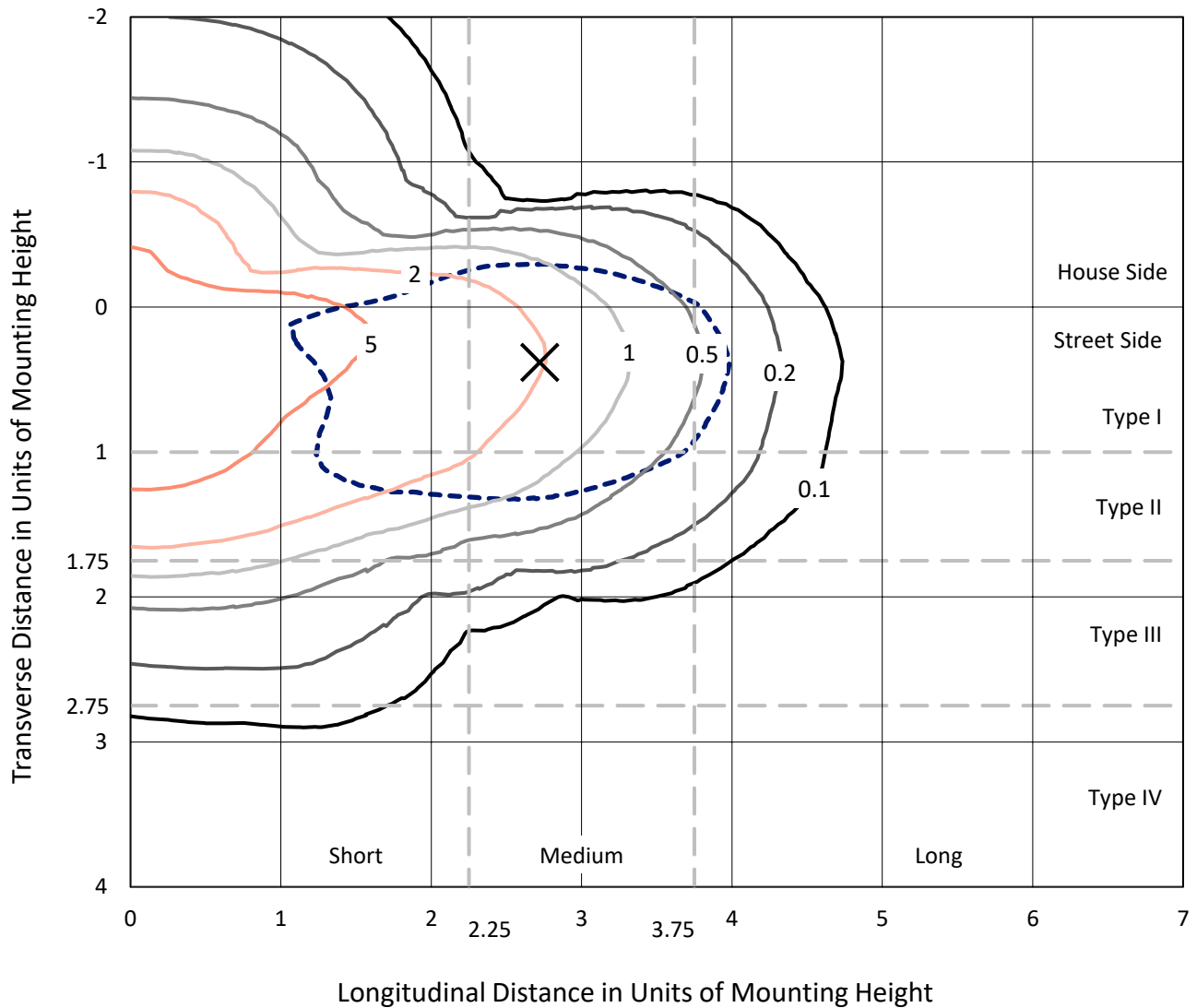
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

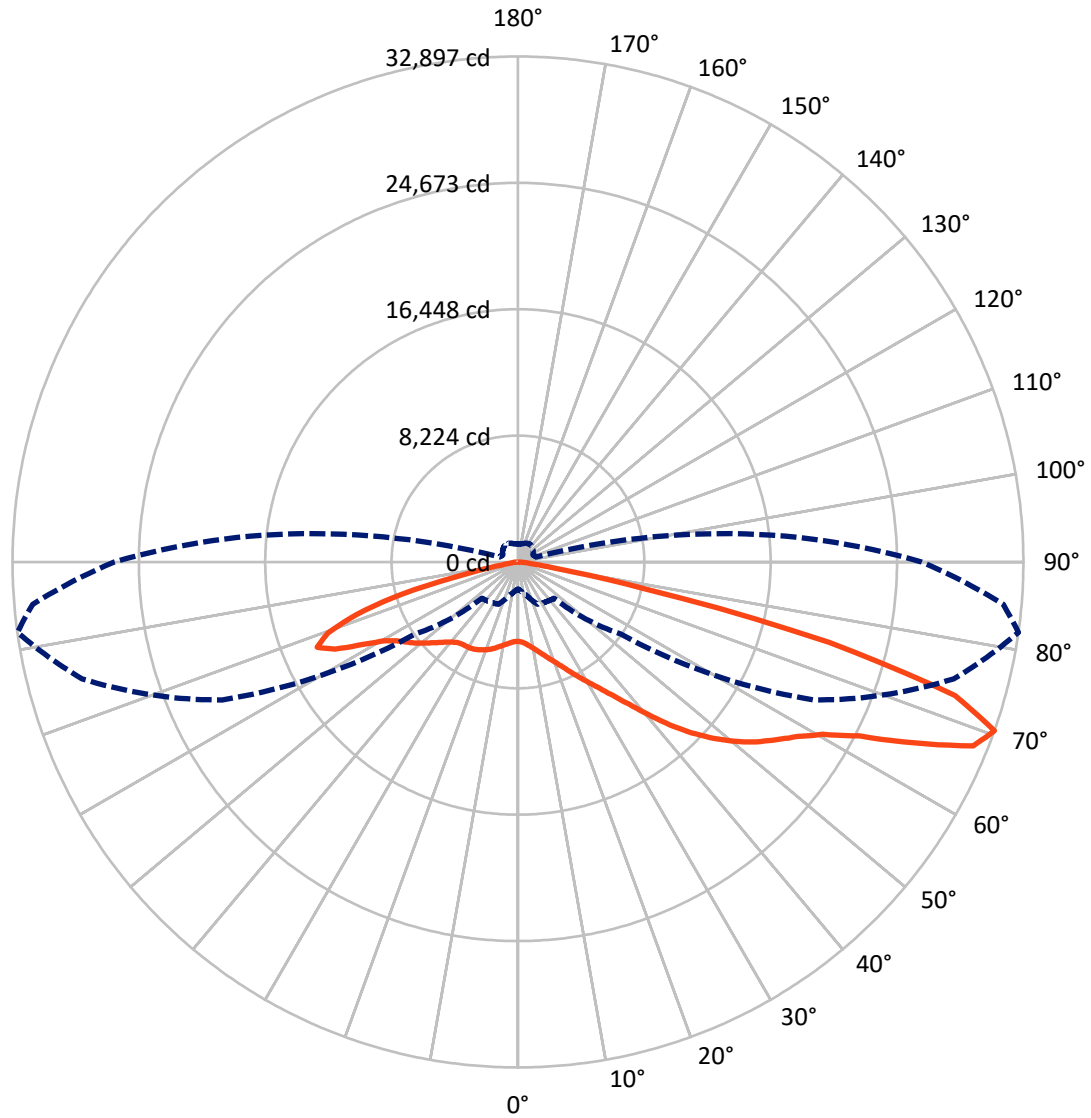
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8678.4	0.0	8678.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26524.6	0.0	26524.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	35203.0	0.0	35203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	1.4
10°-20°	1400.1	4.0
20°-30°	2342.2	6.7
30°-40°	3659.1	10.4
40°-50°	5827.5	16.6
50°-60°	8109.7	23.0
60°-70°	8483.1	24.1
70°-80°	4433.7	12.6
80°-90°	460.4	1.3
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°	35203.0	100.0
0°-180°	35203.0	100.0

Coefficient of Utilization



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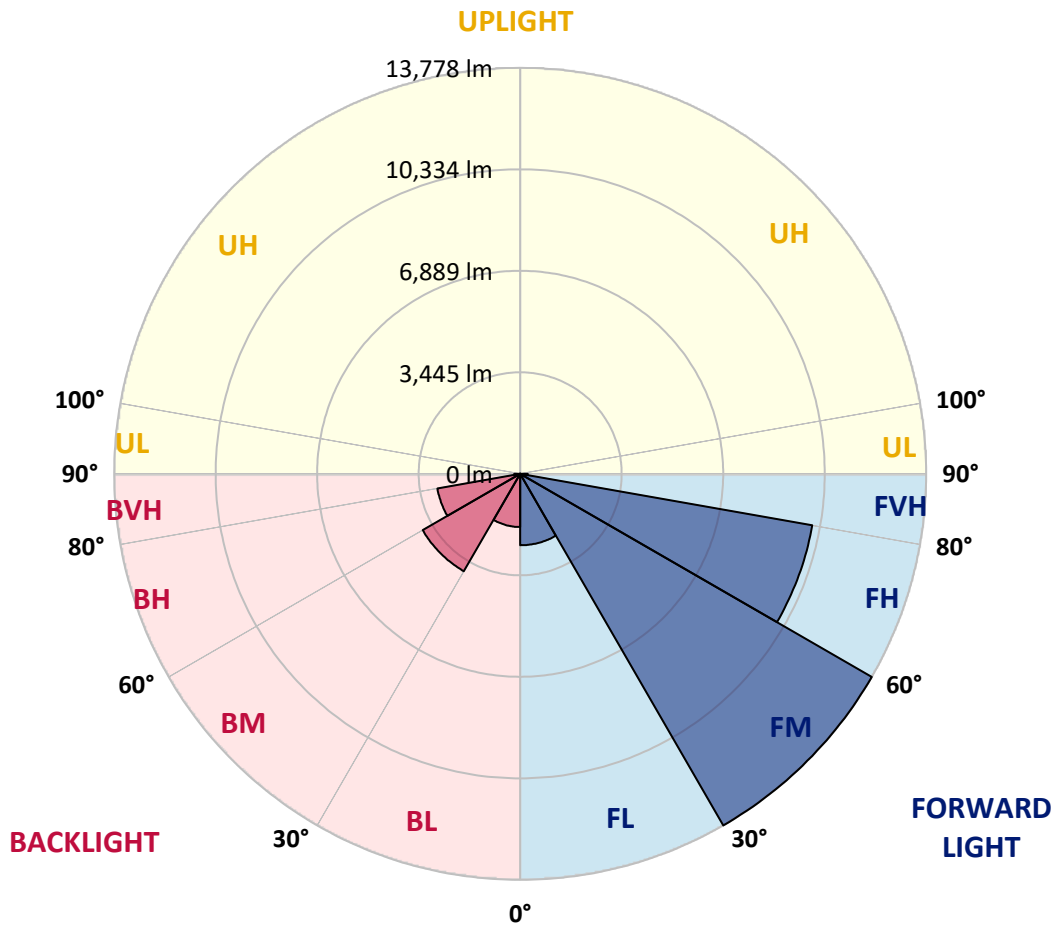
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.1	6.9			
FM (30°-60°)	13778.1	39.1			
FH (60°-80°)	10064.6	28.6			G4/12000
FVH (80°-90°)	257.7	0.7			G3/500
BL (0°-30°)	1805.4	5.1	B3/2500		
BM (30°-60°)	3818.2	10.8	B3/5000		
BH (60°-80°)	2852.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	202.7	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2
2.5°	5284.5	5314.4	5305.0	5295.7	5295.7	5282.6	5280.8	5262.1	5247.1	5222.8
5°	5351.7	5383.5	5379.8	5387.2	5411.5	5417.1	5422.7	5411.5	5381.6	5351.7
7.5°	5292.0	5327.4	5338.7	5383.5	5458.2	5525.5	5575.9	5596.4	5568.4	5525.5
10°	5090.2	5129.4	5168.7	5275.1	5407.8	5566.5	5701.0	5781.4	5775.8	5734.7
12.5°	4681.1	4722.2	4806.3	5013.6	5256.5	5536.7	5787.0	5955.1	6013.0	5983.1
15°	4354.2	4389.7	4453.2	4666.2	4981.9	5407.8	5818.7	6145.6	6293.2	6276.4
17.5°	4344.9	4359.8	4399.1	4499.9	4742.8	5206.0	5785.1	6332.4	6614.5	6612.6
20°	4509.3	4514.9	4537.3	4557.8	4696.1	5052.9	5699.2	6487.5	6975.0	6975.0
22.5°	4737.2	4733.4	4755.9	4737.2	4804.4	5039.8	5645.0	6623.8	7376.6	7406.5
25°	5079.0	5060.3	5054.7	5011.8	5024.8	5161.2	5704.8	6778.9	7852.9	7914.6
27.5°	5534.8	5504.9	5484.4	5385.4	5351.7	5411.5	5887.8	6965.7	8383.4	8489.9
30°	6128.8	6074.6	6044.7	5872.9	5751.5	5760.8	6164.3	7214.1	8938.2	9110.1
32.5°	6939.5	6855.4	6775.1	6493.1	6270.8	6197.9	6521.1	7557.8	9539.7	9814.3
35°	7847.3	7780.1	7694.2	7258.9	6917.1	6749.0	7003.0	8037.9	10243.9	10679.2
37.5°	8721.6	8663.6	8704.7	8118.2	7677.4	7432.7	7634.4	8682.3	11112.6	11755.1
40°	9625.6	9580.8	9586.4	9026.0	8512.3	8237.7	8400.3	9491.2	12108.2	13034.7
42.5°	10608.2	10574.6	10462.5	9965.6	9388.4	9132.5	9281.9	10425.1	13176.7	14491.7
45°	11708.4	11687.9	11583.3	11013.5	10352.3	10064.6	10266.4	11456.3	14250.7	15862.8
47.5°	12659.2	12676.0	12663.0	12182.9	11497.4	11075.2	11316.2	12532.2	15250.1	17151.7
50°	13116.9	13204.7	13333.6	13184.1	12758.2	12328.6	12375.3	13570.8	16202.8	18360.3
52.5°	12877.8	13044.0	13395.2	13634.3	13798.7	13709.0	13583.9	14601.9	17099.4	19451.2
55°	11986.8	12220.3	12803.1	13380.3	14219.0	14870.9	15035.3	15745.1	17973.6	20411.3
57.5°	10363.5	10742.7	11265.7	12433.2	13845.4	15433.2	16727.7	17331.0	18900.1	21436.8
60°	7580.2	8088.3	8738.4	10475.6	12537.8	15132.4	18167.9	19766.9	20217.0	22764.9
62.5°	4851.1	5164.9	5762.7	7399.0	9769.5	13591.3	18608.7	22811.6	22449.3	24943.0
65°	3321.2	3523.0	4070.3	4989.3	6315.6	10116.9	17428.2	25094.3	25994.7	28395.0
67.5°	2413.4	2566.6	3033.6	3838.7	4115.1	5986.8	13524.1	24989.7	29441.1	31951.6
70°	1759.6	1868.0	2260.2	3033.6	3166.2	3330.6	8192.9	21242.6	29366.4	32896.8
72.5°	1303.8	1378.6	1641.9	2353.6	2562.9	2249.0	4055.4	15438.8	25234.4	29754.9
75°	943.3	999.4	1193.6	1800.7	2051.0	1712.9	2023.0	9022.3	17601.9	20930.6
77.5°	721.0	764.0	891.0	1318.8	1641.9	1285.2	1255.3	4150.6	8346.1	8387.2
80°	579.1	607.1	676.2	928.4	1259.0	962.0	818.2	1675.6	2637.6	2232.2
82.5°	425.9	472.6	571.6	651.9	900.4	663.1	498.7	846.2	1003.1	863.0
85°	242.8	274.6	345.6	467.0	575.3	405.3	285.8	375.5	467.0	382.9
87.5°	85.9	112.1	121.4	183.1	250.3	168.1	110.2	108.3	153.2	113.9
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°
5161.2	0°	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2	5161.2
5217.2	2.5°	5198.6	5189.2	5151.9	5101.4	5049.1	4998.7	4981.9	4946.4	4922.1	4909.0
5338.7	5°	5303.2	5273.3	5185.5	5073.4	4955.7	4828.7	4739.0	4656.8	4597.1	4541.0
5504.9	7.5°	5452.6	5400.3	5249.0	5052.9	4843.6	4632.6	4475.7	4356.1	4275.8	4223.5
5699.2	10°	5626.3	5546.0	5314.4	5021.1	4697.9	4395.3	4210.4	4107.7	4057.2	4029.2
5921.5	12.5°	5826.2	5712.3	5381.6	4948.3	4475.7	4130.1	4003.1	3973.2	3975.0	3976.9
6201.7	15°	6072.8	5914.0	5435.8	4789.5	4186.1	3926.5	3904.1	3952.6	4003.1	4027.3
6519.2	17.5°	6351.1	6126.9	5445.1	4528.0	3902.2	3795.7	3866.7	3971.3	4047.9	4081.5
6874.1	20°	6650.0	6343.6	5377.9	4158.1	3668.7	3689.2	3816.3	3950.8	4034.8	4077.8
7279.5	22.5°	6991.8	6575.3	5217.2	3769.6	3478.2	3573.4	3722.9	3853.6	3941.4	3984.4
7755.8	25°	7382.2	6834.9	4965.1	3442.7	3313.8	3442.7	3592.1	3700.4	3771.4	3810.7
8288.2	27.5°	7815.6	7105.8	4628.8	3183.0	3169.9	3308.2	3431.5	3515.5	3552.9	3582.8
8854.2	30°	8250.8	7352.3	4221.6	2986.9	3044.8	3175.5	3263.3	3300.7	3311.9	3317.5
9485.5	32.5°	8721.6	7565.3	3793.8	2824.4	2925.2	3046.7	3099.0	3115.8	3063.5	3028.0
10251.4	35°	9291.3	7793.2	3375.4	2695.5	2807.6	2912.2	2929.0	2914.0	2852.4	2779.5
11211.6	37.5°	9995.5	8077.1	3041.1	2603.9	2697.3	2766.5	2745.9	2742.2	2747.8	2661.9
12366.0	40°	10858.5	8447.0	2796.4	2533.0	2607.7	2622.6	2564.7	2596.5	2624.5	2493.7
13632.4	42.5°	11816.8	8893.4	2641.3	2484.4	2533.0	2497.5	2407.8	2443.3	2439.6	2267.7
14904.5	45°	12793.7	9379.1	2587.1	2448.9	2463.9	2392.9	2293.9	2303.2	2224.8	2069.7
16124.3	47.5°	13765.1	9900.2	2620.8	2419.0	2377.9	2297.6	2221.0	2179.9	2064.1	1948.3
17293.7	50°	14717.7	10447.6	2744.0	2359.2	2260.2	2213.5	2157.5	2084.7	1961.4	1862.4
18399.5	52.5°	15601.3	10998.6	2882.3	2260.2	2112.7	2140.7	2105.2	2021.1	1899.7	1798.9
19445.6	55°	16438.1	11549.7	2936.4	2123.9	1974.4	2077.2	2056.6	1901.6	1755.9	1673.7
20540.2	57.5°	17349.7	12212.8	2876.7	1950.2	1862.4	2004.3	1925.9	1754.0	1670.0	1608.3
21965.5	60°	18612.4	13253.2	2747.8	1735.3	1755.9	1896.0	1761.5	1690.5	1599.0	1529.9
24102.4	62.5°	20710.2	15194.1	2540.4	1522.4	1630.7	1735.3	1683.0	1612.1	1518.7	1451.4
27756.2	65°	23811.0	17891.4	2150.0	1356.1	1490.6	1578.4	1599.0	1528.0	1430.9	1359.9
30957.9	67.5°	26426.2	19583.8	1627.0	1217.9	1346.8	1451.4	1509.3	1440.2	1337.5	1268.4
31706.9	70°	26282.3	18354.7	1242.2	1081.6	1219.8	1326.3	1401.0	1346.8	1236.6	1171.2
28800.4	72.5°	23344.0	15354.7	1005.0	943.3	1090.9	1195.5	1285.2	1244.1	1132.0	1068.5
21098.7	75°	17149.8	10899.6	803.2	803.2	930.2	1059.1	1158.1	1132.0	1029.3	984.4
8857.9	77.5°	7229.0	4572.8	629.5	666.9	773.3	909.7	1033.0	1042.3	952.7	1008.7
2342.4	80°	1922.1	1260.9	480.1	524.9	607.1	750.9	898.5	894.8	797.6	745.3
870.5	82.5°	732.2	496.9	341.8	369.9	439.0	575.3	711.7	734.1	637.0	551.1
341.8	85°	282.1	212.9	211.1	222.3	255.9	381.1	538.0	556.7	480.1	407.2
95.3	87.5°	72.9	63.5	78.5	74.7	117.7	203.6	308.2	319.4	293.3	170.0
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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<u>180°</u>
5161.2
4924.0
4563.4
4234.7
4036.7
3980.6
4025.5
4089.0
4089.0
3995.6
3821.9
3594.0
3330.6
3039.2
2783.3
2667.5
2497.5
2265.8
2075.3
1948.3
1854.9
1800.7
1666.2
1602.7
1526.1
1451.4
1363.6
1270.2
1176.8
1068.5
971.3
915.3
693.0
551.1
420.3
242.8
0.0

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