

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: P957555

Luminaire Tested: **GALN-SB9D-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957555  
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-SB9D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

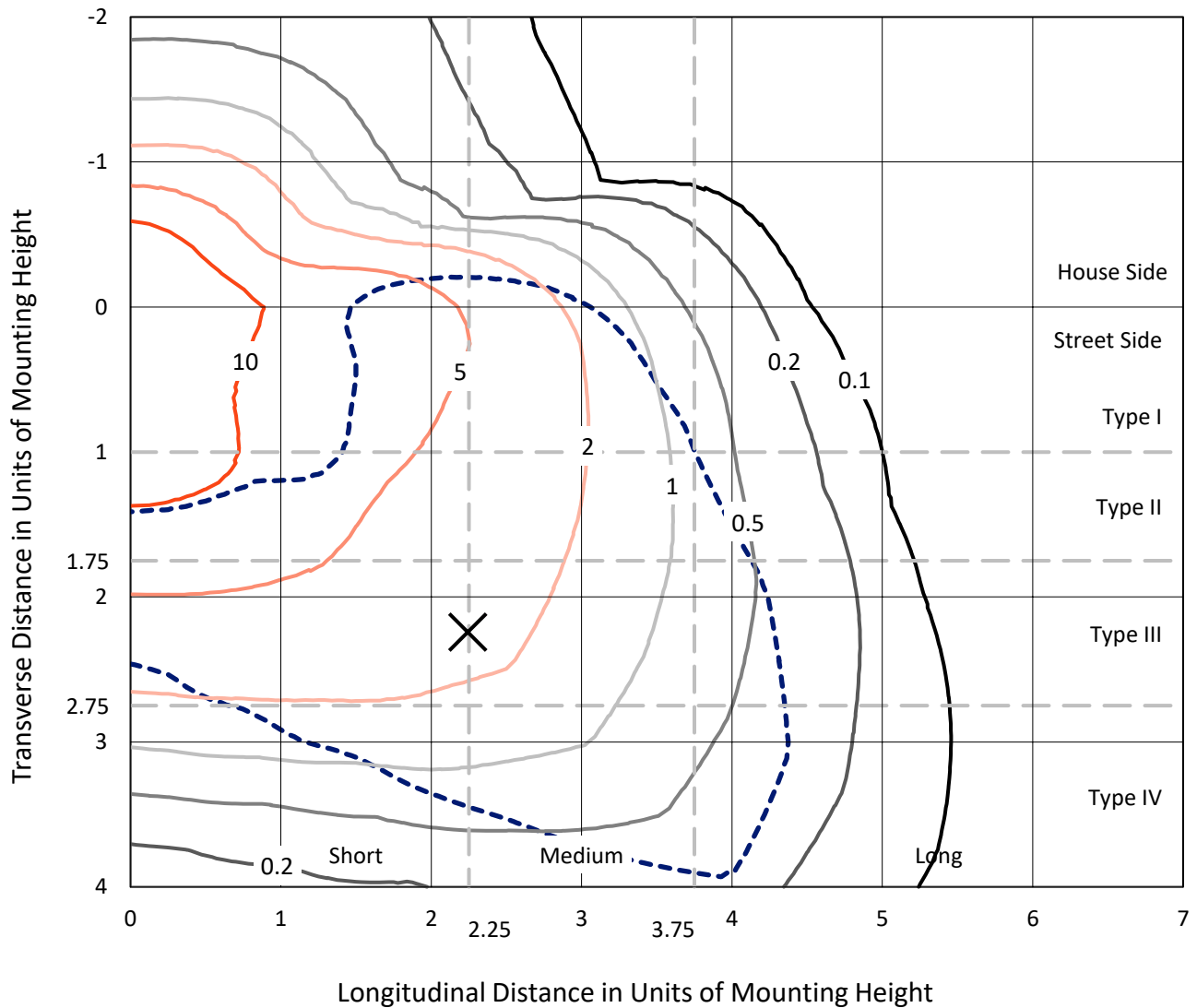
Lumens per Lamp: N/A  
Luminaire Lumens: 88484 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

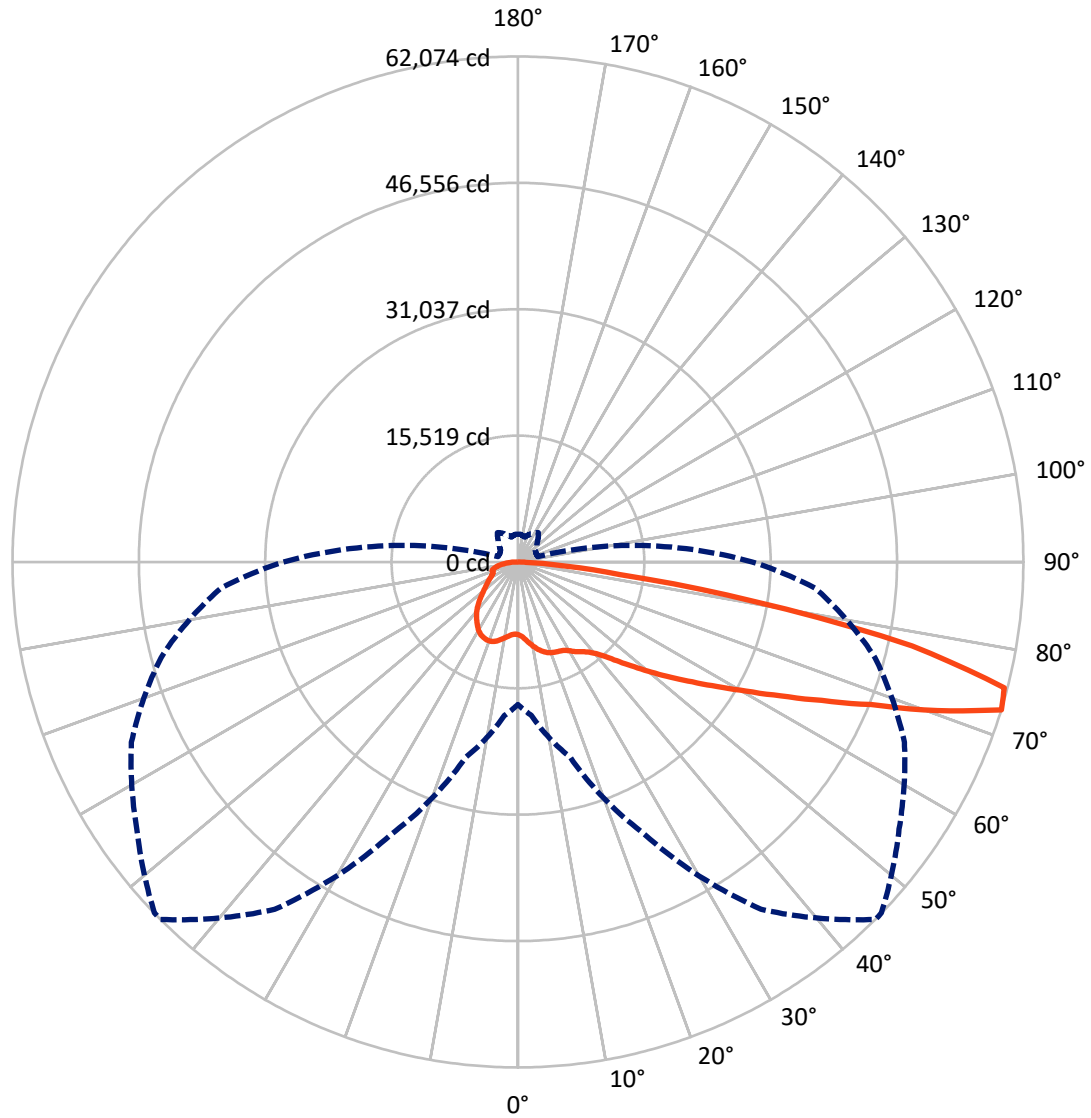
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	20003.2	0.0	20003.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	68480.8	0.0	68480.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	88484.0	0.0	88484.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	908.5	1.0
10°-20°	3029.1	3.4
20°-30°	5269.3	6.0
30°-40°	7553.9	8.5
40°-50°	10636.3	12.0
50°-60°	16291.7	18.4
60°-70°	23601.0	26.7
70°-80°	18846.8	21.3
80°-90°	2347.3	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°	88484.0	100.0
0°-180°	88484.0	100.0

**Coefficient of Utilization**



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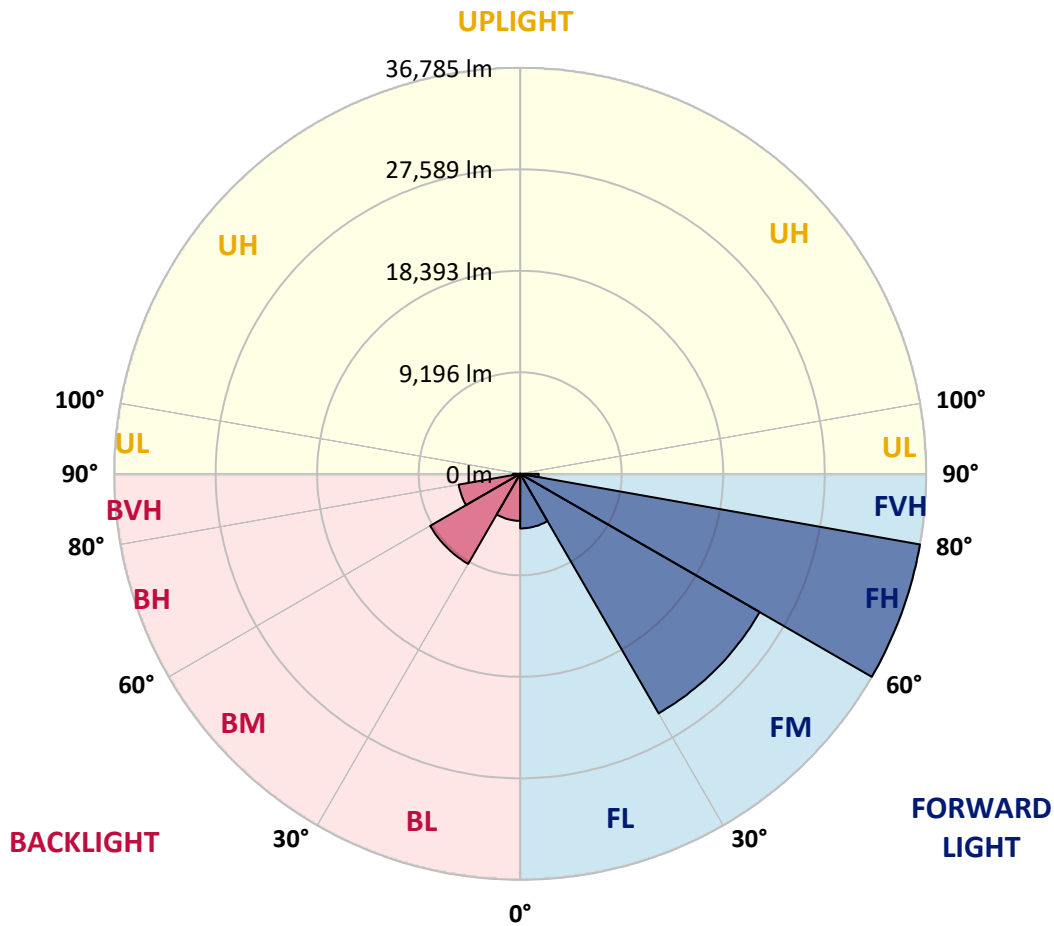
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4948.2	5.6			
FM (30°-60°)	25063.3	28.3			
FH (60°-80°)	36785.4	41.6			G5
FVH (80°-90°)	1684.0	1.9			G5
BL (0°-30°)	4258.8	4.8	B4/5000		
BM (30°-60°)	9418.7	10.6	B5		
BH (60°-80°)	5662.4	6.4	B5		G5
BVH (80°-90°)	663.3	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
2.5°	9275.9	9336.5	9280.6	9229.3	9206.0	9145.4	9140.7	9103.4	9080.1	9014.9
5°	9923.8	10003.1	9909.8	9807.3	9714.1	9564.9	9546.3	9439.1	9317.9	9178.0
7.5°	10655.6	10725.6	10618.4	10464.5	10301.4	10054.3	10049.7	9853.9	9662.8	9425.1
10°	11294.2	11387.5	11243.0	11033.2	10828.1	10548.4	10515.8	10292.1	10049.7	9742.0
12.5°	11858.2	11923.5	11783.7	11527.3	11289.6	11009.9	10967.9	10720.9	10450.5	10101.0
15°	12305.7	12389.6	12203.2	11928.2	11676.5	11401.4	11364.2	11140.4	10870.1	10501.8
17.5°	12599.4	12669.3	12478.2	12170.6	11928.2	11699.8	11671.8	11485.3	11247.6	10874.7
20°	12711.3	12785.8	12585.4	12273.1	12049.4	11872.2	11858.2	11723.1	11559.9	11219.7
22.5°	12823.1	12893.0	12632.0	12305.7	12110.0	11998.1	11993.4	11904.9	11839.6	11559.9
25°	13275.3	13293.9	12944.3	12473.5	12193.9	12096.0	12091.3	12086.6	12114.6	11895.5
27.5°	13666.8	13662.2	13363.8	12921.0	12487.5	12282.4	12277.8	12324.4	12412.9	12231.1
30°	14240.2	14188.9	13834.6	13373.2	12976.9	12660.0	12632.0	12590.1	12660.0	12515.5
32.5°	15456.7	15293.6	14720.3	13899.9	13382.5	13140.1	13102.8	12841.8	12869.7	12781.2
35°	17200.1	16985.6	16221.2	14897.4	13885.9	13541.0	13522.3	13191.4	13135.4	13056.2
37.5°	19274.3	19008.6	18118.3	16342.4	14752.9	14007.1	13979.1	13680.8	13452.4	13368.5
40°	21357.9	21022.3	20285.8	18104.3	16030.1	14785.5	14697.0	14244.8	13983.8	13843.9
42.5°	23380.9	23101.2	22471.9	20080.7	17605.6	15922.9	15727.1	14953.3	14757.5	14627.0
45°	25170.8	24919.1	24457.6	22192.3	19451.4	17470.4	17279.3	16016.1	15955.5	15955.5
47.5°	26625.1	26569.2	26079.8	24345.8	21628.2	19232.4	18901.4	17493.7	17656.9	17908.6
50°	28237.9	28084.1	27562.0	26466.6	24187.3	21250.7	20980.3	19306.9	19917.6	20607.4
52.5°	29720.2	29804.1	29221.4	28676.1	27077.3	23502.1	23026.6	21446.5	22765.6	23907.6
55°	31244.4	31249.1	31085.9	31011.4	30107.1	25991.2	25469.1	24019.5	26117.0	27534.1
57.5°	32675.4	32684.8	32927.1	33584.4	33621.7	28862.5	28270.5	27179.8	29841.4	31286.4
60°	33952.6	34017.9	34679.8	36218.0	36712.1	32153.4	31594.0	30913.5	33691.6	35145.9
62.5°	34381.5	34619.2	36092.1	38278.3	39765.2	36190.0	35640.0	35234.5	37737.6	39089.3
65°	33654.3	34199.7	37047.7	39979.6	42906.9	40986.5	40441.1	39998.3	41942.0	43214.5
67.5°	31869.0	32572.9	36991.8	41764.9	46719.8	46757.1	46249.0	45209.6	46449.5	46938.9
70°	27165.8	28219.3	33733.5	42431.5	51096.7	54648.6	54159.2	51483.6	50947.6	48579.7
72.5°	17503.0	18920.1	24839.9	36945.1	52070.9	62074.0	62046.0	57147.1	52369.3	45391.4
75°	6385.9	7252.9	11541.3	23189.8	43708.6	61696.4	61878.2	56177.5	47805.9	35062.0
77.5°	2326.0	2545.0	3766.3	8912.3	26881.5	49502.6	49880.1	44911.2	34027.2	17596.3
80°	1221.3	1342.4	1929.8	3458.7	11518.0	29398.6	29990.5	26690.4	15992.8	5299.9
82.5°	675.9	731.8	1081.4	1878.5	5188.0	12571.4	12925.7	10543.8	5626.1	2246.7
85°	363.6	386.9	508.1	1025.5	2535.7	4358.3	4456.2	3151.0	2242.1	1319.1
87.5°	107.2	130.5	167.8	326.3	992.8	978.9	1002.2	624.6	885.6	666.6
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°
8926.3	0°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
8996.2	2.5°	8968.3	8954.3	8903.0	8879.7	8851.7	8847.1	8870.4	8875.0	8879.7	8884.4
9098.8	5°	9052.2	9005.6	8958.9	8931.0	8940.3	8945.0	8991.6	9024.2	9047.5	9066.2
9289.9	7.5°	9215.3	9178.0	9098.8	9094.1	9108.1	9150.1	9210.7	9285.2	9327.2	9359.8
9536.9	10°	9457.7	9387.8	9294.6	9308.5	9336.5	9397.1	9523.0	9583.6	9653.5	9714.1
9839.9	12.5°	9704.7	9644.1	9536.9	9546.3	9592.9	9700.1	9821.3	9895.9	9942.5	9989.1
10166.2	15°	10026.4	9919.2	9802.6	9802.6	9886.5	10003.1	10059.0	10119.6	10147.6	10198.8
10515.8	17.5°	10357.3	10217.5	10063.7	10054.3	10156.9	10212.8	10245.5	10254.8	10264.1	10320.0
10856.1	20°	10688.3	10534.4	10315.4	10296.7	10320.0	10310.7	10306.0	10296.7	10310.7	10380.6
11205.7	22.5°	11014.6	10837.4	10534.4	10450.5	10385.3	10296.7	10292.1	10287.4	10296.7	10366.6
11583.2	25°	11396.8	11182.4	10776.8	10525.1	10306.0	10184.9	10198.8	10203.5	10212.8	10268.8
11974.8	27.5°	11811.6	11573.9	11000.6	10501.8	10105.6	10021.7	9998.4	10012.4	10045.0	10133.6
12366.3	30°	12226.5	11946.8	11205.7	10408.6	9853.9	9737.4	9662.8	9695.4	9798.0	9886.5
12706.6	32.5°	12604.0	12324.4	11368.8	10203.5	9532.3	9350.5	9252.6	9294.6	9397.1	9429.7
13084.2	35°	13046.9	12729.9	11438.7	9877.2	9182.7	8903.0	8772.5	8711.9	8763.2	8730.5
13527.0	37.5°	13541.0	13210.0	11429.4	9448.4	8772.5	8450.9	8269.1	8040.7	7933.5	7821.6
14179.6	40°	14272.8	13797.3	11317.5	8931.0	8264.4	7970.8	7644.5	7257.6	7015.2	6796.1
15233.0	42.5°	15270.3	14613.1	11112.4	8362.3	7691.1	7416.1	6973.2	6521.1	6138.9	5775.3
16831.8	45°	16757.2	15680.5	10856.1	7756.3	7071.1	6800.8	6320.7	5812.6	5379.1	4913.0
19101.8	47.5°	18901.4	17116.1	10613.7	7066.5	6418.6	6171.5	5738.0	5267.2	4754.5	4302.3
22383.4	50°	21847.3	19176.4	10389.9	6395.2	5775.3	5588.9	5243.9	4763.8	4246.4	3882.8
26228.9	52.5°	25595.0	21977.8	10296.7	5747.3	5174.0	5104.1	4829.1	4381.6	3892.2	3584.5
30713.0	55°	29897.3	25329.3	10296.7	5127.4	4647.3	4670.6	4479.5	4064.6	3640.4	3365.4
35337.0	57.5°	34288.2	28722.7	10110.3	4554.1	4199.8	4297.7	4176.5	3812.9	3430.7	3146.4
40198.7	60°	38334.2	31566.1	9355.1	4032.0	3803.6	3957.4	3878.2	3565.9	3099.7	2862.0
44263.3	62.5°	41443.3	33169.5	7900.8	3617.1	3477.3	3654.4	3612.5	3239.6	3039.1	2941.3
47600.8	65°	43000.1	32908.5	6041.0	3248.9	3202.3	3477.3	3388.7	3374.8	3216.3	3104.4
48686.9	67.5°	42044.6	30661.8	4381.6	2978.5	3043.8	3314.2	3654.4	3710.4	3416.7	3197.6
45629.1	70°	37854.1	26597.2	3262.9	2722.2	2843.4	3318.8	4167.2	3882.8	3351.4	3095.1
36595.6	72.5°	28797.3	19833.7	2531.1	2451.8	2582.3	3342.1	4395.6	3803.6	3165.0	3421.4
22798.2	75°	16468.2	10888.7	2032.3	2120.9	2256.0	3123.0	4279.0	3598.5	3020.5	3141.7
9033.5	77.5°	6278.7	4185.8	1678.1	1794.6	1813.2	2726.8	4092.6	3584.5	2876.0	2806.1
2708.2	80°	2176.8	1636.1	1389.1	1426.3	1403.0	2423.9	3924.8	3118.4	2353.9	2106.9
1118.7	82.5°	890.3	815.7	1100.1	1053.4	997.5	1883.1	3169.7	2549.7	1925.1	1701.4
540.7	85°	386.9	517.4	727.2	638.6	578.0	1305.2	2540.4	2158.2	1626.8	1403.0
177.1	87.5°	79.2	195.8	307.6	289.0	298.3	871.7	1803.9	1533.6	1151.3	862.3
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°  
8926.3  
8903.0  
9075.5  
9369.1  
9700.1  
10007.7  
10217.5  
10338.7  
10408.6  
10413.3  
10343.3  
10222.1  
9984.4  
9546.3  
8833.1  
7891.5  
6810.1  
5742.7  
4857.0  
4251.1  
3859.5  
3561.2  
3337.5  
3099.7  
2824.7  
2908.6  
3067.1  
3160.3  
3053.1  
3393.4  
3141.7  
2559.0  
2037.0  
1682.7  
1398.4  
675.9  
0.0

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