

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: P955705

Luminaire Tested: **GALN-SB8C-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

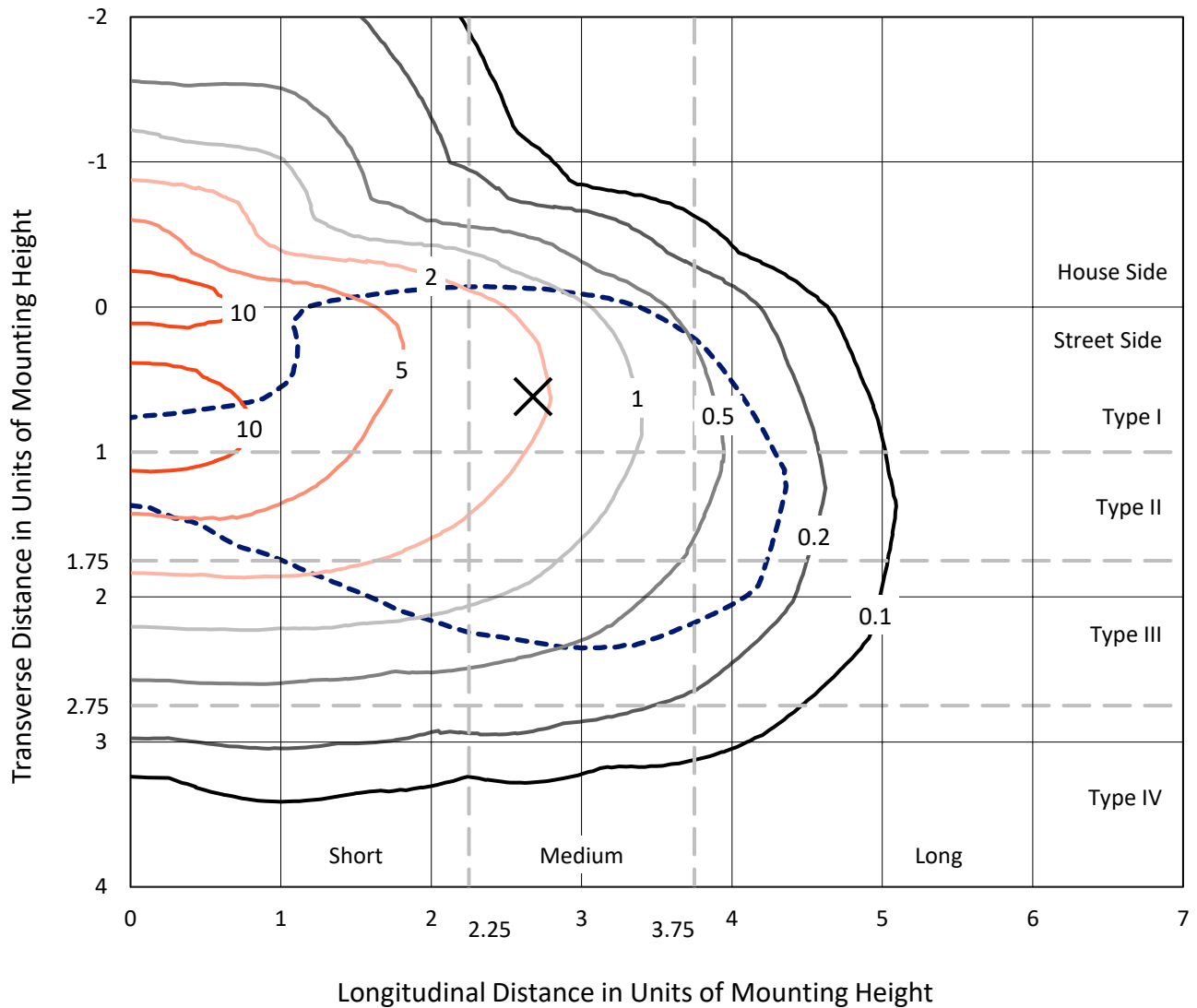
Lumens per Lamp: N/A  
Luminaire Lumens: 54060 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

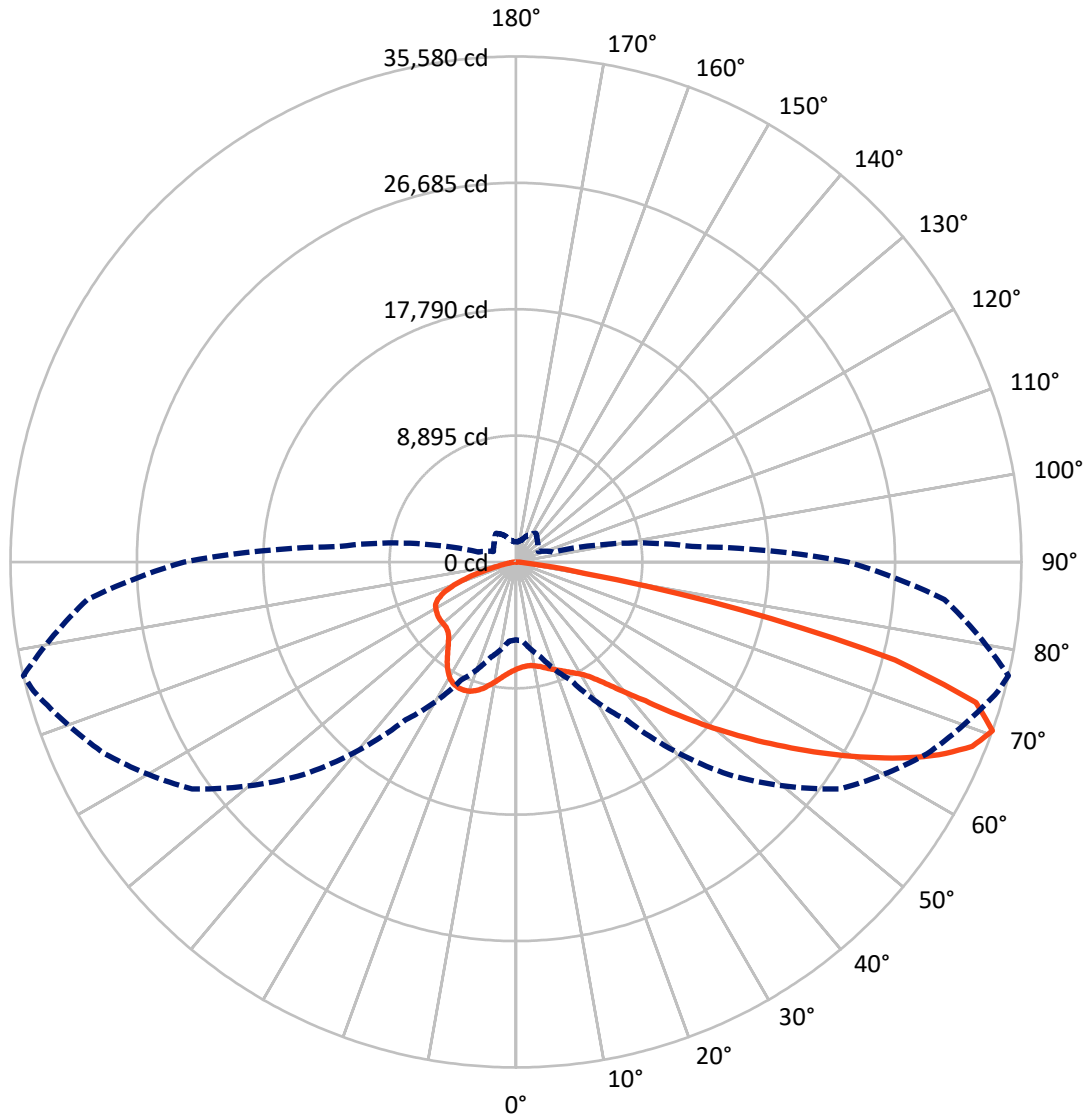
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11838.3	0.0	11838.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	42221.7	0.0	42221.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	54060.0	0.0	54060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.3	1.3
10°-20°	2075.9	3.8
20°-30°	3550.2	6.6
30°-40°	5709.0	10.6
40°-50°	8913.3	16.5
50°-60°	11906.0	22.0
60°-70°	12689.9	23.5
70°-80°	7811.9	14.5
80°-90°	684.5	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°	54060.0	100.0
0°-180°	54060.0	100.0

**Coefficient of Utilization**



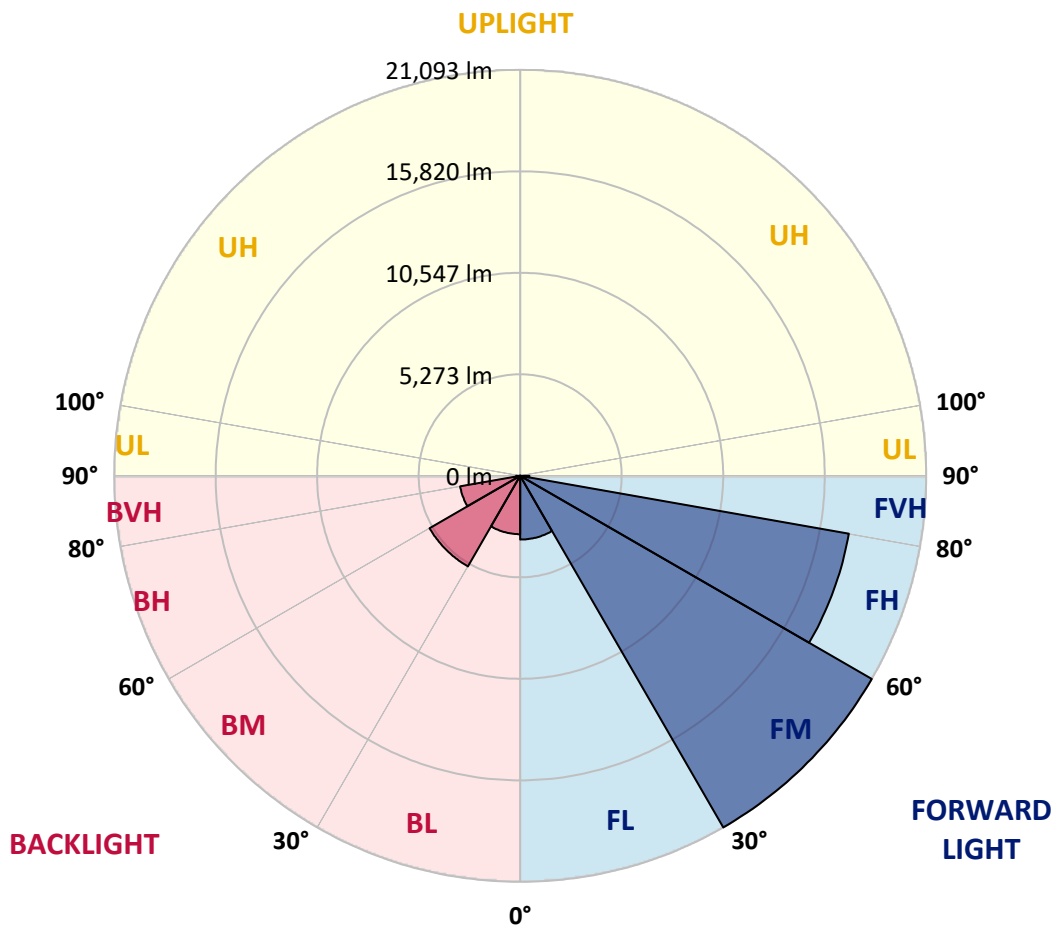
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.0	6.1			
FM (30°-60°)	21093.0	39.0			
FH (60°-80°)	17337.9	32.1			G5
FVH (80°-90°)	478.7	0.9			G3/500
BL (0°-30°)	3033.3	5.6	B4/5000		
BM (30°-60°)	5435.2	10.1	B4/8500		
BH (60°-80°)	3163.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	205.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9
2.5°	6952.1	6949.4	6985.4	6996.4	7062.9	7110.0	7198.5	7292.7	7414.5	7428.3
5°	6550.7	6550.7	6592.2	6636.5	6722.3	6816.5	6952.1	7115.5	7325.9	7359.1
7.5°	6210.1	6232.3	6268.3	6354.1	6453.8	6589.4	6797.1	7029.7	7306.5	7359.1
10°	5936.0	5961.0	6005.3	6074.5	6224.0	6412.2	6683.6	6982.6	7353.6	7436.7
12.5°	5850.2	5875.1	5900.0	5952.6	6091.1	6312.6	6636.5	7004.7	7467.1	7550.2
15°	6049.5	6080.0	6060.6	6046.8	6118.8	6320.9	6658.7	7085.0	7608.3	7727.4
17.5°	6509.1	6520.2	6475.9	6345.8	6334.7	6442.7	6763.9	7195.8	7785.5	7915.6
20°	7251.2	7231.8	7140.4	6882.9	6736.2	6714.0	6943.8	7361.9	7968.2	8106.7
22.5°	8258.9	8236.8	8054.1	7647.1	7320.4	7104.4	7204.1	7577.9	8173.1	8328.2
25°	9515.9	9485.5	9216.9	8663.2	8156.5	7622.2	7558.5	7863.0	8425.1	8569.0
27.5°	10983.3	10958.4	10667.7	9936.8	9205.8	8330.9	7998.7	8198.0	8688.1	8851.4
30°	12561.5	12633.5	12118.5	11332.2	10407.4	9255.7	8591.2	8610.6	9028.6	9175.4
32.5°	14416.5	14541.1	13920.9	12924.2	11661.6	10260.7	9338.7	9186.5	9524.2	9646.1
35°	16254.9	16396.1	15881.1	14779.2	13325.6	11445.7	10119.5	9848.2	10183.2	10316.1
37.5°	17844.1	18032.4	17766.6	16808.6	15105.9	12874.3	11138.4	10626.2	10994.4	11160.5
40°	19098.3	19386.2	19366.9	18768.8	17204.5	14607.5	12431.3	11586.9	12002.2	12182.2
42.5°	20117.2	20366.4	20582.3	20551.9	19394.5	16576.0	13951.3	12835.6	13151.2	13358.8
45°	20820.4	21086.2	21551.3	22052.5	21501.5	18683.0	15692.8	14316.8	14604.7	14917.6
47.5°	21448.9	21750.7	22354.3	23148.9	23290.1	20798.3	17600.4	16041.7	16304.7	16628.6
50°	21504.3	21764.5	22700.3	23827.2	24560.9	22830.5	19649.3	17977.0	18223.4	18569.5
52.5°	20167.0	20576.8	22210.3	23807.8	25145.1	24530.4	21684.2	19989.8	20266.7	20682.0
55°	15654.1	16254.9	20773.3	23065.8	24937.4	25629.6	23619.5	22130.0	22484.4	22919.1
57.5°	13483.4	13746.5	16490.2	21714.7	23990.5	25914.8	25253.1	24292.3	24862.7	25338.9
60°	12118.5	12337.2	13959.6	19613.3	22744.6	25463.5	26515.6	26307.9	27293.6	27861.1
62.5°	10656.6	10864.3	12340.0	16376.7	21149.9	24713.2	27313.0	28168.5	29785.4	30405.6
65°	9205.8	9383.0	10797.8	13760.3	19123.2	23962.9	27725.5	29777.1	32091.7	32734.0
67.5°	7588.9	7735.7	9072.9	11609.0	16659.1	22935.7	27930.4	31042.4	34099.0	34649.9
70°	5476.4	5589.9	6971.5	9180.9	13566.5	21169.3	27847.3	31939.4	35140.0	35580.2
72.5°	2588.7	2691.1	4313.6	5961.0	9582.4	17730.6	26166.7	31227.9	34082.4	33863.6
75°	1381.6	1470.2	2478.0	3269.8	5061.1	12154.5	21412.9	26900.4	28619.8	27556.6
77.5°	935.8	1005.0	1533.8	1963.0	2311.8	5769.9	13763.1	18624.9	17918.8	16163.5
80°	742.0	814.0	1257.0	1329.0	1118.5	2084.8	5686.9	8621.6	6193.5	4953.2
82.5°	570.3	650.6	1057.6	963.5	609.1	855.5	1655.7	2727.1	1586.4	1207.1
85°	348.9	434.7	830.6	614.6	343.3	390.4	562.0	758.6	484.5	404.2
87.5°	177.2	249.2	420.8	224.3	155.0	91.4	149.5	149.5	127.4	110.7
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°
7541.9	0°	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9	7541.9
7503.1	2.5°	7569.5	7624.9	7719.1	7807.7	7876.9	7943.3	8009.8	8045.8	8056.8	8101.1
7544.6	5°	7658.1	7760.6	7943.3	8115.0	8223.0	8289.4	8336.5	8364.2	8369.7	8383.5
7658.1	7.5°	7821.5	7984.9	8239.6	8411.2	8491.5	8486.0	8466.6	8397.4	8369.7	8344.8
7824.3	10°	8051.3	8267.3	8580.1	8699.2	8649.3	8516.4	8344.8	8142.7	8048.5	7957.2
8051.3	12.5°	8336.5	8610.6	8917.9	8912.4	8665.9	8325.4	7926.7	7616.6	7420.0	7278.8
8330.9	15°	8682.6	8998.2	9233.5	9045.3	8505.4	7893.5	7309.3	6905.1	6727.9	6572.8
8613.3	17.5°	9039.7	9377.5	9485.5	9003.7	8101.1	7253.9	6592.2	6273.8	6099.4	6016.3
8917.9	20°	9388.6	9723.6	9635.0	8765.6	7486.5	6528.5	5938.8	5764.4	5728.4	5747.8
9214.1	22.5°	9756.8	10055.8	9665.4	8306.0	6703.0	5786.5	5462.6	5468.1	5548.4	5606.6
9524.2	25°	10133.3	10335.5	9585.1	7641.5	5861.3	5241.1	5160.8	5249.4	5407.2	5520.7
9873.1	27.5°	10496.0	10584.6	9410.7	6819.2	5138.7	4850.7	4864.6	5047.3	5285.4	5443.2
10296.7	30°	10905.8	10806.1	9075.7	5894.5	4637.5	4515.7	4632.0	4845.2	5083.3	5224.5
10831.0	32.5°	11368.2	10997.2	8544.1	5039.0	4283.1	4247.1	4438.2	4576.6	4681.8	4723.4
11539.8	35°	11944.1	11265.7	7863.0	4438.2	3964.7	4050.6	4233.3	4164.1	4122.6	4100.4
12492.2	37.5°	12691.6	11628.4	7065.7	4047.8	3707.3	3909.4	3984.1	3768.2	3604.8	3524.5
13646.8	40°	13591.4	12160.0	6298.7	3746.0	3543.9	3787.5	3657.4	3397.2	3189.5	3076.0
14945.3	42.5°	14590.9	12716.5	5653.6	3519.0	3452.5	3687.9	3416.5	3106.5	2771.4	2735.4
16493.0	45°	15640.2	13289.6	5213.4	3344.6	3408.2	3602.0	3278.1	2777.0	2538.9	2685.6
18046.2	47.5°	16689.6	13815.7	4947.6	3214.4	3386.1	3505.1	3156.3	2594.2	2425.4	2638.5
19710.2	50°	17857.9	14286.3	4828.6	3120.3	3361.2	3466.4	2973.6	2547.2	2306.3	2447.5
21432.3	52.5°	19018.0	14651.8	4740.0	3026.2	3325.2	3435.9	2885.0	2491.8	2162.3	2170.6
23165.5	55°	20175.3	14889.9	4643.1	2901.6	3244.9	3369.5	2876.7	2430.9	2054.4	2015.6
24998.3	57.5°	21410.1	15025.6	4524.0	2763.1	3106.5	3200.6	2868.3	2383.8	2021.1	1957.5
26872.7	60°	22667.1	15224.9	4369.0	2594.2	2920.9	2998.5	2849.0	2367.2	2001.8	1893.8
28639.1	62.5°	23794.0	15294.1	4183.5	2433.7	2682.8	2799.1	2807.4	2353.4	1949.1	1763.6
30106.5	65°	24533.2	14995.1	3859.5	2250.9	2425.4	2594.2	2727.1	2306.3	1855.0	1669.5
30831.9	67.5°	24502.7	14142.4	3352.9	2015.6	2176.2	2367.2	2610.9	2226.0	1741.5	1553.2
30283.7	70°	23362.1	12459.0	2710.5	1741.5	1902.1	2123.6	2461.3	2107.0	1605.8	1425.9
26928.1	72.5°	20036.9	9751.3	1968.5	1420.3	1583.7	1871.6	2267.5	1963.0	1467.4	1312.4
19901.2	75°	14314.0	6171.4	1334.5	1090.9	1232.1	1586.4	2026.7	1794.1	1340.0	1317.9
9967.2	77.5°	7312.1	2948.6	883.2	797.4	858.3	1251.4	1702.7	1603.1	1359.4	1088.1
2835.1	80°	2378.3	1088.1	556.5	542.7	570.3	833.4	1317.9	1315.1	1029.9	739.2
686.6	82.5°	758.6	467.9	362.7	348.9	335.0	523.3	919.2	1041.0	694.9	467.9
246.4	85°	301.8	279.6	213.2	196.6	141.2	246.4	481.7	692.2	517.7	337.8
63.7	87.5°	110.7	110.7	58.1	41.5	30.5	83.1	130.1	207.7	296.2	174.4
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>
7541.9
8126.1
8405.7
8350.3
7929.5
7245.6
6556.2
6041.2
5739.5
5620.4
5551.2
5482.0
5257.7
4745.5
4122.6
3543.9
3084.3
2771.4
2763.1
2738.2
2552.7
2228.8
2043.3
1965.8
1902.1
1763.6
1669.5
1561.5
1442.5
1304.0
1243.1
969.0
653.4
465.1
346.1
171.7
0.0

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