

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: P941207

Luminaire Tested: **GALN-SB4C-850-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-850-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

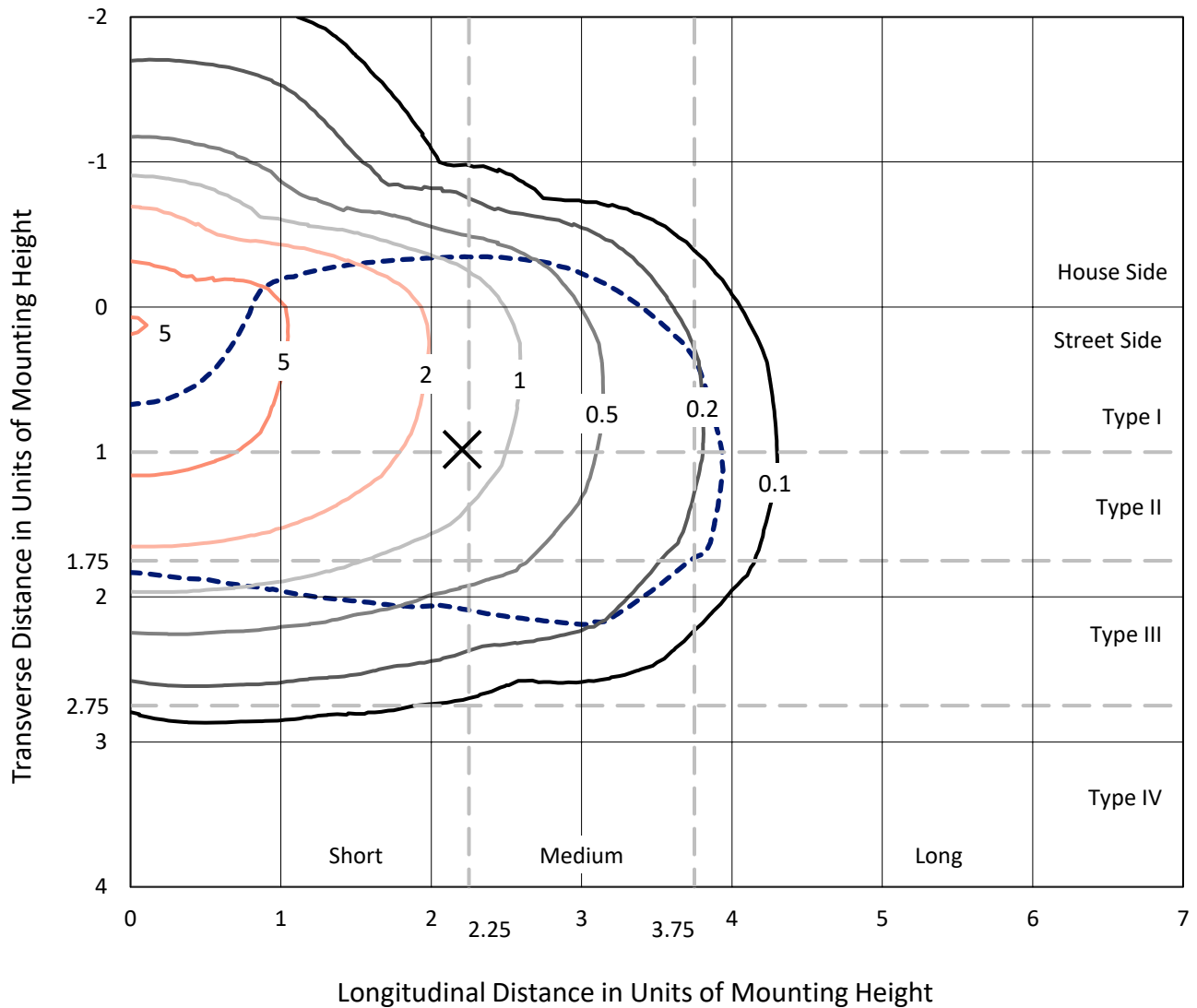
Lumens per Lamp: N/A  
Luminaire Lumens: 28729 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

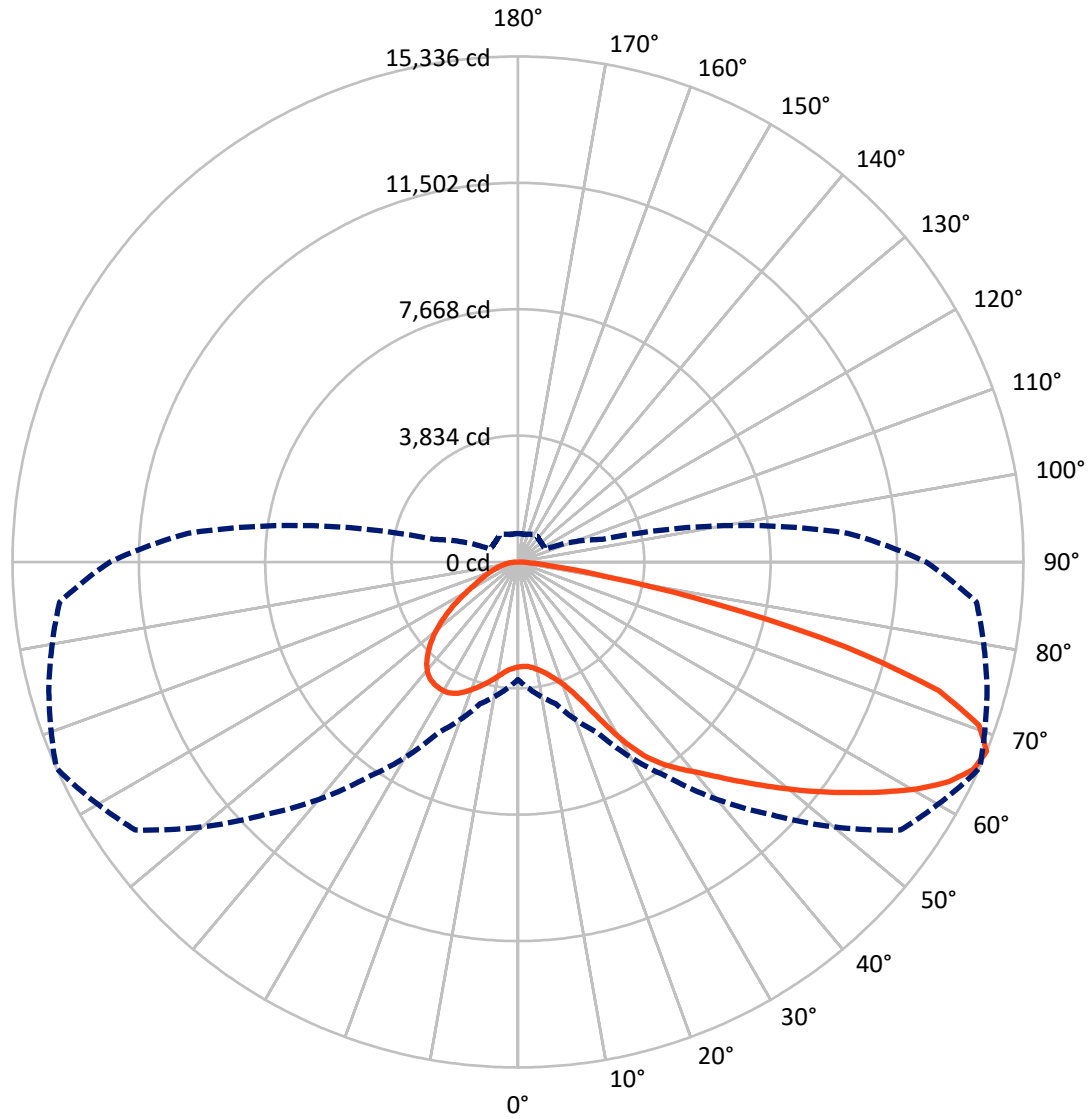
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7143.4	0.0	7143.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	21585.6	0.0	21585.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	28729.0	0.0	28729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.9	1.1
10°-20°	1043.8	3.6
20°-30°	2011.8	7.0
30°-40°	3527.4	12.3
40°-50°	5244.1	18.3
50°-60°	6647.4	23.1
60°-70°	6504.3	22.6
70°-80°	3102.6	10.8
80°-90°	331.6	1.2
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°	28729.0	100.0
0°-180°	28729.0	100.0

**Coefficient of Utilization**



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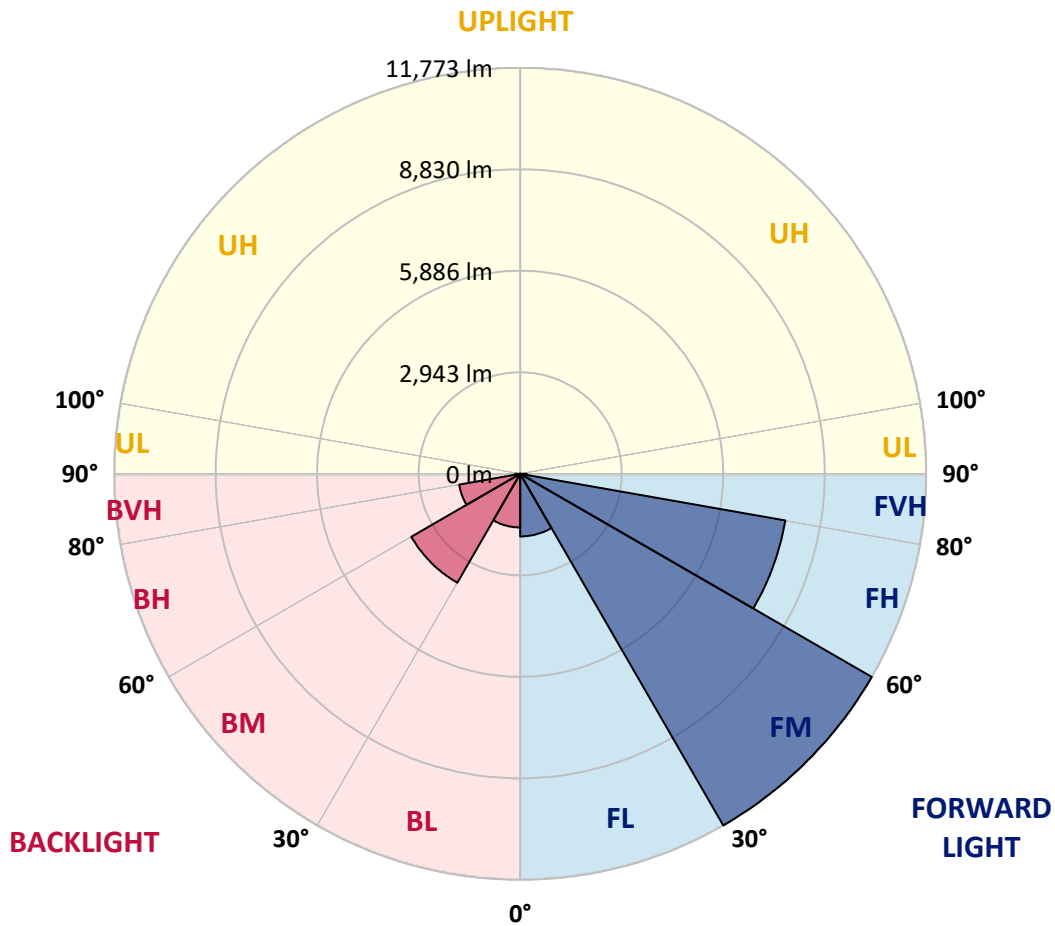
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.4	6.3			
FM (30°-60°)	11772.9	41.0			
FH (60°-80°)	7809.3	27.2			G4/12000
FVH (80°-90°)	188.0	0.7			G2/225
BL (0°-30°)	1556.1	5.4	B3/2500		
BM (30°-60°)	3646.1	12.7	B3/5000		
BH (60°-80°)	1797.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	143.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4
2.5°	3153.2	3171.3	3166.8	3159.3	3157.7	3160.8	3165.3	3169.8	3168.3	3175.9
5°	3144.2	3162.3	3160.8	3160.8	3166.8	3178.9	3186.4	3194.0	3186.4	3195.5
7.5°	3150.2	3163.8	3169.8	3175.9	3191.0	3213.6	3231.7	3248.3	3239.3	3249.8
10°	3227.2	3237.7	3243.8	3243.8	3254.4	3280.0	3298.1	3328.3	3320.8	3337.4
12.5°	3367.6	3378.1	3378.1	3372.1	3379.6	3396.2	3402.3	3435.5	3421.9	3449.1
15°	3539.6	3560.8	3544.2	3533.6	3536.6	3553.2	3551.7	3577.4	3563.8	3586.4
17.5°	3729.8	3757.0	3729.8	3728.3	3722.3	3740.4	3741.9	3764.5	3740.4	3757.0
20°	3954.7	3992.5	3969.8	3977.4	3963.8	3971.3	3978.9	4012.1	3974.4	3986.4
22.5°	4271.7	4317.0	4292.8	4321.5	4312.5	4306.4	4304.9	4363.8	4304.9	4309.4
25°	4733.6	4787.9	4745.7	4784.9	4784.9	4804.5	4827.2	4902.7	4804.5	4775.9
27.5°	5415.9	5470.2	5387.2	5411.3	5403.8	5452.1	5427.9	5615.1	5509.5	5462.7
30°	6237.0	6333.6	6176.6	6170.6	6163.0	6240.0	6274.7	6398.5	6291.3	6244.5
32.5°	7124.6	7225.7	7038.5	6984.2	6955.5	7002.3	6973.6	7073.2	6999.3	6926.8
35°	8063.4	8163.0	7984.9	7879.3	7764.6	7666.4	7563.8	7589.5	7520.0	7409.8
37.5°	8951.0	9133.6	8944.9	8831.7	8620.4	8428.7	8141.9	8022.7	7957.8	7856.6
40°	9855.1	9959.3	9815.9	9719.3	9489.8	9189.5	8730.6	8478.5	8391.0	8292.9
42.5°	10520.8	10620.4	10543.4	10477.0	10297.4	9948.7	9355.5	9040.0	8913.2	8803.0
45°	11049.1	11123.1	11074.8	11098.9	11021.9	10683.8	10003.1	9642.3	9511.0	9376.6
47.5°	11261.9	11340.4	11417.4	11560.8	11692.1	11443.1	10698.9	10294.4	10155.5	10018.1
50°	11237.8	11317.8	11541.2	11846.1	12253.6	12170.6	11432.5	10988.7	10860.4	10703.4
52.5°	11044.6	11135.1	11421.9	11929.1	12578.2	12715.5	12179.7	11705.7	11584.9	11397.8
55°	10537.4	10591.7	11021.9	11740.4	12655.1	13095.9	12911.7	12469.5	12348.7	12087.6
57.5°	9597.0	9675.5	10301.9	11231.7	12461.9	13354.0	13554.8	13272.5	13156.3	12780.4
60°	8369.8	8495.1	9212.1	10377.4	11969.9	13352.5	14138.9	14061.9	13965.3	13462.7
62.5°	6981.2	7126.1	7815.9	9169.8	11109.5	12973.6	14504.2	14723.1	14673.3	14092.1
65°	5361.5	5461.2	6147.9	7607.6	9770.6	12160.0	14546.5	15174.4	15183.4	14570.6
67.5°	3569.8	3856.6	4452.8	5708.7	7977.4	10830.2	14175.1	15248.4	15335.9	14735.1
70°	1741.9	2119.3	2703.4	3710.2	5708.7	8791.0	13204.6	14641.6	14836.3	14255.1
72.5°	723.0	845.3	1163.8	1830.9	3277.0	5932.1	11254.4	12996.3	13357.0	12631.0
75°	487.5	528.3	665.7	938.9	1492.8	2925.3	8116.3	9690.6	10271.7	9539.7
77.5°	375.9	401.5	484.5	656.6	887.6	1106.4	4344.2	5840.0	6140.4	5684.5
80°	295.9	315.5	362.3	478.5	629.4	591.7	1480.8	2646.0	2819.6	2365.3
82.5°	256.6	264.2	259.6	324.5	418.1	345.7	486.0	976.6	1077.7	781.9
85°	185.7	206.8	215.8	200.8	221.9	175.1	199.2	345.7	380.4	339.6
87.5°	75.5	111.7	137.4	129.8	81.5	49.8	61.9	101.1	116.2	126.8
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°
3186.4	0°	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4	3186.4
3187.9	2.5°	3189.4	3200.0	3207.6	3216.6	3222.7	3231.7	3249.8	3260.4	3261.9	3269.4
3212.1	5°	3218.1	3233.2	3249.8	3274.0	3301.1	3323.8	3358.5	3382.7	3391.7	3399.3
3271.0	7.5°	3280.0	3301.1	3331.3	3373.6	3412.8	3443.0	3485.3	3514.0	3542.7	3553.2
3364.5	10°	3372.1	3402.3	3446.0	3503.4	3545.7	3584.9	3628.7	3652.8	3681.5	3693.6
3476.2	12.5°	3486.8	3518.5	3575.9	3655.9	3695.1	3722.3	3737.4	3731.3	3737.4	3747.9
3610.6	15°	3618.1	3652.8	3717.7	3803.8	3831.0	3806.8	3773.6	3743.4	3738.9	3741.9
3773.6	17.5°	3773.6	3799.3	3874.7	3947.2	3927.6	3827.9	3755.5	3707.2	3683.0	3675.5
3981.9	20°	3991.0	3991.0	4052.8	4098.1	3966.8	3797.7	3684.5	3606.0	3556.2	3535.1
4265.7	22.5°	4255.1	4231.0	4270.2	4238.5	3959.3	3713.2	3556.2	3420.4	3344.9	3314.7
4662.7	25°	4590.2	4561.5	4551.0	4354.7	3904.9	3578.9	3323.8	3159.3	3092.8	3076.2
5234.7	27.5°	5095.9	5023.4	4886.1	4418.1	3805.3	3367.6	3052.1	2899.6	2861.9	2863.4
5969.8	30°	5769.1	5624.2	5287.6	4428.7	3642.3	3068.7	2774.3	2665.7	2647.6	2655.1
6587.2	32.5°	6392.5	6255.1	5698.1	4380.4	3391.7	2775.9	2525.3	2452.8	2425.7	2434.7
7058.1	35°	6881.5	6843.8	6078.5	4312.5	3083.8	2501.1	2301.9	2240.0	2187.2	2175.1
7501.9	37.5°	7343.4	7328.3	6363.8	4217.4	2778.9	2306.4	2122.3	2040.8	1963.8	1921.5
7992.5	40°	7850.6	7835.5	6551.0	4071.0	2508.7	2137.4	1960.8	1853.6	1758.5	1681.5
8548.0	42.5°	8421.2	8332.1	6640.0	3861.1	2279.3	1994.0	1829.4	1684.5	1559.3	1488.3
9175.9	45°	9044.6	8843.8	6638.5	3594.0	2086.0	1862.6	1689.1	1483.8	1367.6	1301.1
9820.4	47.5°	9705.7	9332.9	6557.0	3298.1	1898.9	1717.7	1471.7	1314.7	1237.7	1197.0
10520.8	50°	10388.0	9790.2	6418.1	2958.5	1707.2	1553.2	1335.9	1228.7	1169.8	1132.1
11215.1	52.5°	11029.5	10205.3	6250.6	2573.6	1512.5	1393.2	1275.5	1192.5	1130.6	1088.3
11888.3	55°	11625.7	10563.1	6013.6	2179.6	1354.0	1286.0	1246.8	1177.4	1106.4	1056.6
12572.1	57.5°	12155.5	10795.5	5604.5	1809.8	1240.8	1212.1	1216.6	1151.7	1070.2	1027.9
13245.3	60°	12596.3	10966.1	4999.3	1467.2	1148.7	1139.6	1169.8	1103.4	1008.3	960.0
13814.4	62.5°	12860.4	10963.1	4256.6	1201.5	1070.2	1073.2	1107.9	1043.0	946.4	901.1
14111.7	65°	12837.8	10694.4	3441.5	1027.9	994.7	997.7	1043.0	976.6	895.1	867.9
13962.3	67.5°	12383.4	10039.3	2640.0	914.7	911.7	925.3	978.1	931.3	863.4	860.4
13071.7	70°	11153.2	8679.3	1901.9	824.2	825.7	845.3	914.7	902.6	846.8	852.8
10990.2	72.5°	8943.4	6617.4	1277.0	729.1	730.6	762.3	854.3	880.0	830.2	910.2
7797.8	75°	5956.2	4126.8	821.1	627.9	629.4	670.2	801.5	836.2	784.9	907.2
4057.4	77.5°	2861.9	1855.1	594.7	528.3	528.3	566.0	692.8	748.7	668.7	704.9
1304.2	80°	988.7	697.4	467.9	425.7	416.6	442.3	584.2	649.1	576.6	531.3
425.7	82.5°	389.4	362.3	375.9	330.6	300.4	317.0	454.3	535.9	424.2	383.4
240.0	85°	223.4	235.5	265.7	218.9	173.6	194.7	333.6	384.9	320.0	282.3
78.5	87.5°	60.4	83.0	122.3	113.2	78.5	83.0	158.5	212.8	184.2	141.9
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>
3186.4
3267.9
3397.7
3554.7
3699.6
3751.0
3752.5
3686.1
3530.6
3310.2
3079.3
2867.9
2680.8
2446.8
2184.2
1923.0
1689.1
1492.8
1298.1
1187.9
1118.5
1070.2
1037.0
1000.8
938.9
887.6
866.4
864.9
851.3
922.3
914.7
646.0
498.1
381.9
288.3
146.4
0.0

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