

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: P955518

Luminaire Tested: **GALN-SB8B-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955518  
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-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

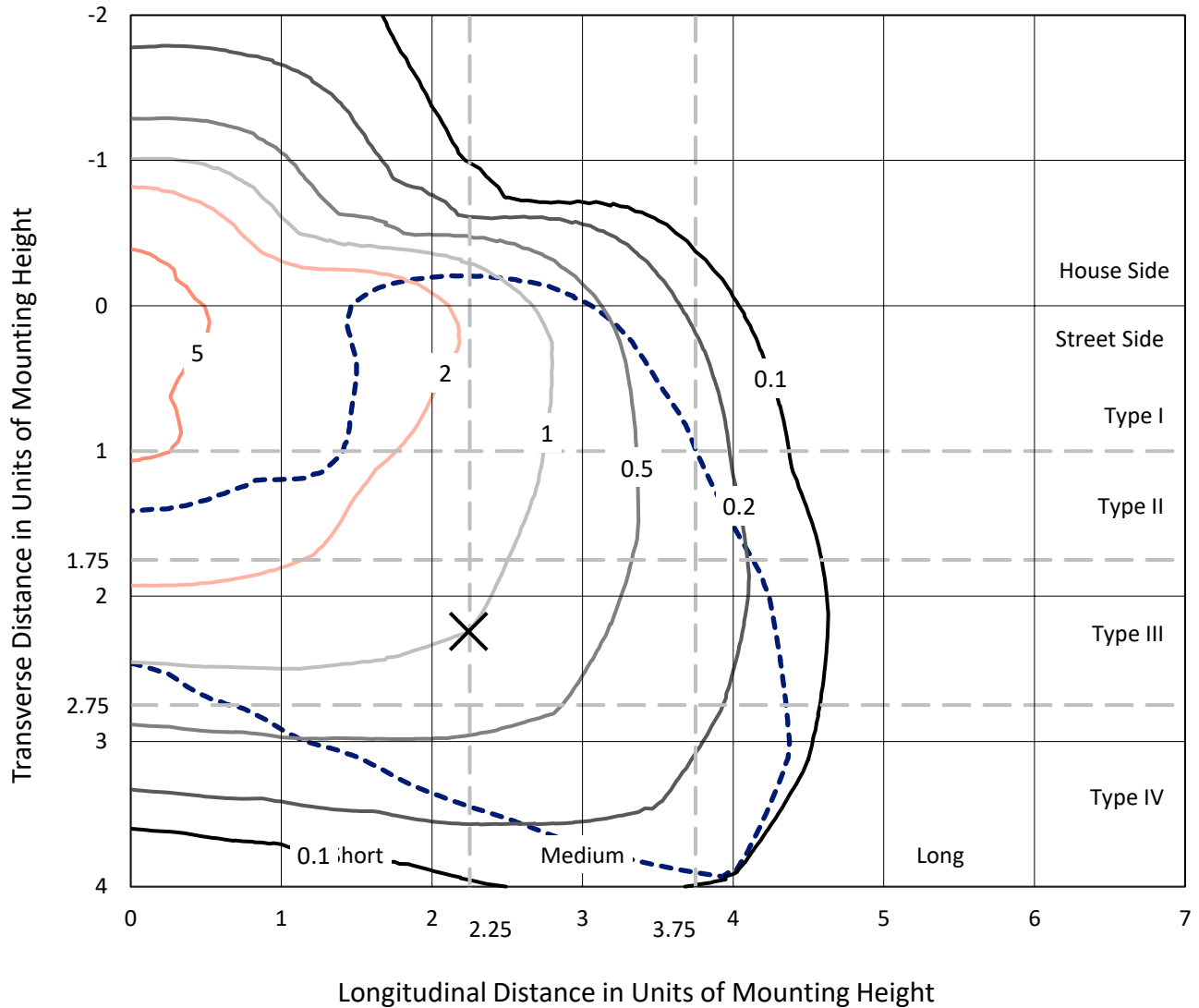
Lumens per Lamp: N/A  
Luminaire Lumens: 32931 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

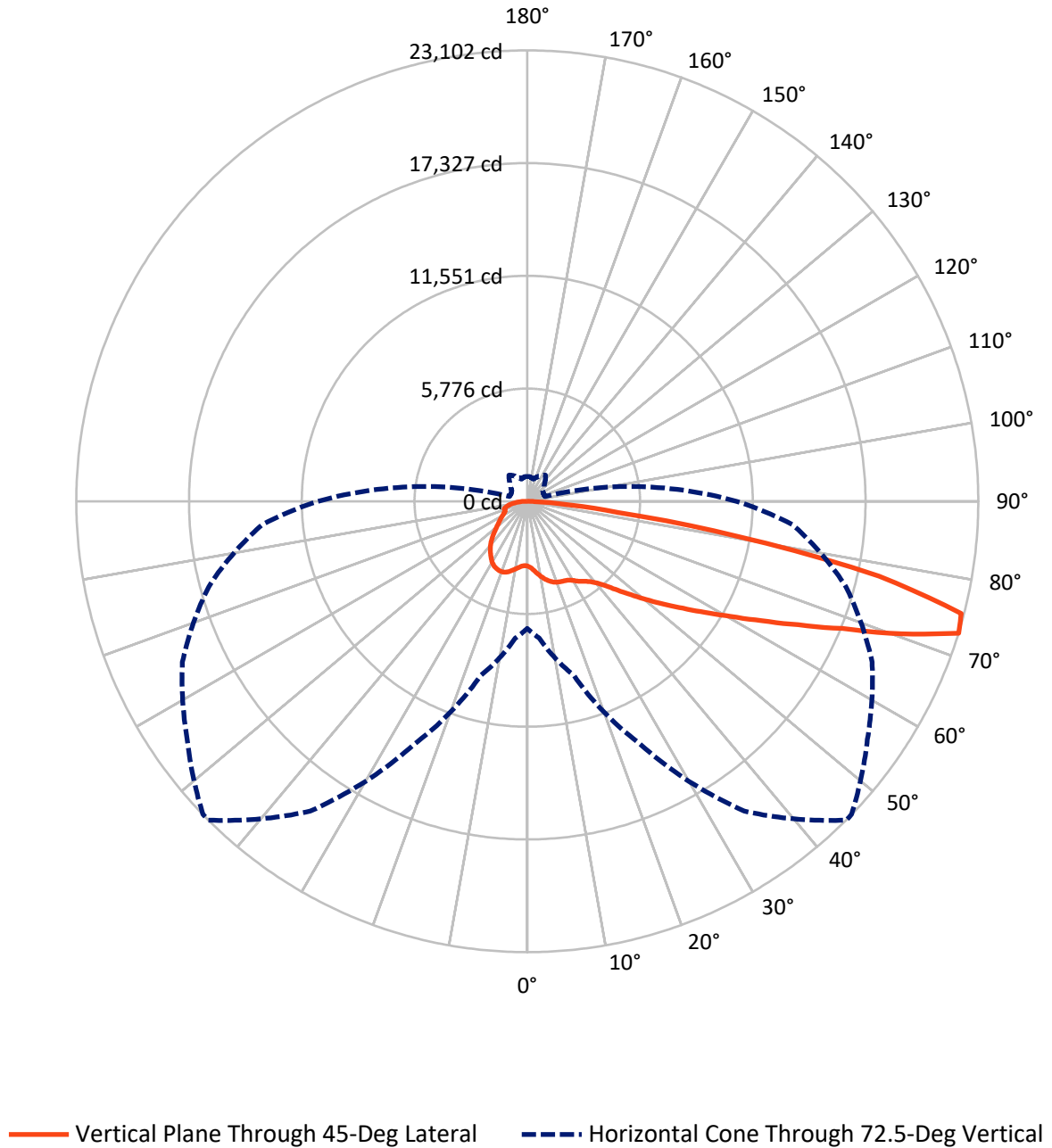
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7444.6	0.0	7444.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25486.4	0.0	25486.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	32931.0	0.0	32931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.1	1.0
10°-20°	1127.3	3.4
20°-30°	1961.1	6.0
30°-40°	2811.3	8.5
40°-50°	3958.5	12.0
50°-60°	6063.3	18.4
60°-70°	8783.6	26.7
70°-80°	7014.2	21.3
80°-90°	873.6	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°	32931.0	100.0
0°-180°	32931.0	100.0

**Coefficient of Utilization**



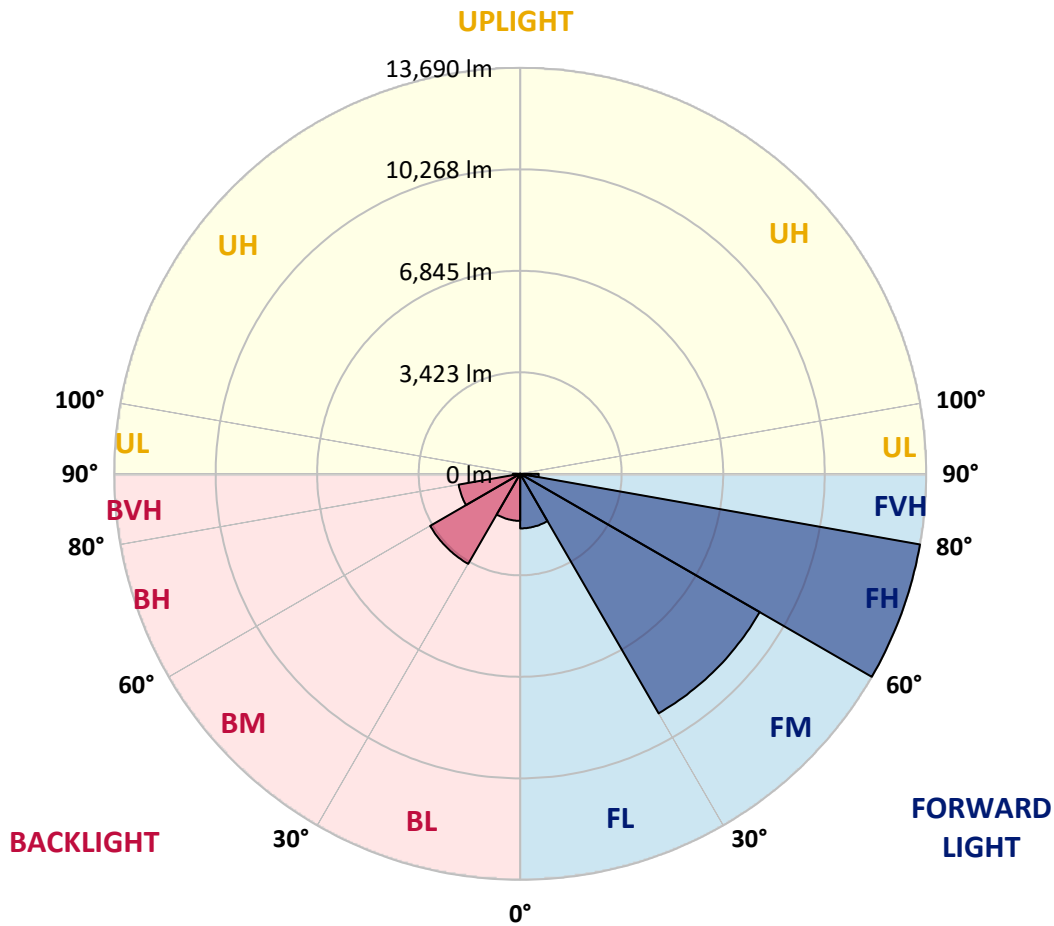
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.6	5.6			
FM (30°-60°)	9327.8	28.3			
FH (60°-80°)	13690.4	41.6			G5
FVH (80°-90°)	626.7	1.9			G4/750
BL (0°-30°)	1585.0	4.8	B3/2500		
BM (30°-60°)	3505.3	10.6	B3/5000		
BH (60°-80°)	2107.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	246.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1
2.5°	3452.2	3474.8	3453.9	3434.9	3426.2	3403.6	3401.9	3388.0	3379.3	3355.1
5°	3693.3	3722.8	3688.1	3650.0	3615.3	3559.8	3552.8	3512.9	3467.8	3415.8
7.5°	3965.7	3991.7	3951.8	3894.6	3833.9	3741.9	3740.2	3667.3	3596.2	3507.7
10°	4203.4	4238.1	4184.3	4106.2	4029.9	3925.8	3913.7	3830.4	3740.2	3625.7
12.5°	4413.3	4437.6	4385.5	4290.1	4201.6	4097.5	4081.9	3990.0	3889.4	3759.3
15°	4579.8	4611.0	4541.6	4439.3	4345.6	4243.3	4229.4	4146.1	4045.5	3908.5
17.5°	4689.1	4715.1	4644.0	4529.5	4439.3	4354.3	4343.9	4274.5	4186.0	4047.2
20°	4730.7	4758.5	4683.9	4567.7	4484.4	4418.5	4413.3	4363.0	4302.2	4175.6
22.5°	4772.4	4798.4	4701.2	4579.8	4506.9	4465.3	4463.6	4430.6	4406.3	4302.2
25°	4940.6	4947.6	4817.5	4642.3	4538.2	4501.7	4500.0	4498.3	4508.7	4427.1
27.5°	5086.4	5084.6	4973.6	4808.8	4647.5	4571.1	4569.4	4586.7	4619.7	4552.1
30°	5299.7	5280.7	5148.8	4977.1	4829.6	4711.7	4701.2	4685.6	4711.7	4657.9
32.5°	5752.5	5691.8	5478.4	5173.1	4980.5	4890.3	4876.5	4779.3	4789.7	4756.8
35°	6401.3	6321.5	6037.0	5544.3	5167.9	5039.5	5032.6	4909.4	4888.6	4859.1
37.5°	7173.3	7074.4	6743.1	6082.1	5490.6	5213.0	5202.6	5091.6	5006.6	4975.3
40°	7948.7	7823.8	7549.7	6737.9	5965.9	5502.7	5469.8	5301.5	5204.3	5152.3
42.5°	8701.6	8597.6	8363.4	7473.4	6552.3	5926.0	5853.1	5565.2	5492.3	5443.7
45°	9367.8	9274.1	9102.4	8259.3	7239.2	6501.9	6430.8	5960.7	5938.1	5938.1
47.5°	9909.0	9888.2	9706.1	9060.7	8049.4	7157.7	7034.5	6510.6	6571.3	6665.0
50°	10509.3	10452.0	10257.7	9850.1	9001.8	7908.8	7808.2	7185.4	7412.7	7669.4
52.5°	11060.9	11092.2	10875.3	10672.3	10077.3	8746.7	8569.8	7981.7	8472.6	8897.7
55°	11628.2	11629.9	11569.2	11541.5	11204.9	9673.1	9478.8	8939.3	9720.0	10247.3
57.5°	12160.8	12164.3	12254.5	12499.1	12512.9	10741.7	10521.4	10115.5	11106.0	11643.8
60°	12636.1	12660.4	12906.7	13479.2	13663.1	11966.5	11758.3	11505.0	12539.0	13080.2
62.5°	12795.7	12884.2	13432.4	14246.0	14799.4	13468.8	13264.1	13113.2	14044.8	14547.8
65°	12525.1	12728.1	13788.0	14879.2	15968.6	15253.9	15050.9	14886.1	15609.5	16083.1
67.5°	11860.7	12122.6	13767.2	15543.6	17387.7	17401.5	17212.5	16825.6	17287.0	17469.2
70°	10110.3	10502.3	12554.6	15791.7	19016.6	20338.5	20156.4	19160.6	18961.1	18079.8
72.5°	6514.1	7041.5	9244.6	13749.8	19379.2	23102.0	23091.6	21268.4	19490.2	16893.3
75°	2376.6	2699.3	4295.3	8630.5	16267.0	22961.5	23029.2	20907.5	17791.9	13049.0
77.5°	865.7	947.2	1401.7	3316.9	10004.5	18423.3	18563.8	16714.6	12663.9	6548.8
80°	454.5	499.6	718.2	1287.2	4286.6	10941.2	11161.6	9933.3	5952.0	1972.4
82.5°	251.5	272.4	402.5	699.1	1930.8	4678.7	4810.5	3924.1	2093.9	836.2
85°	135.3	144.0	189.1	381.7	943.7	1622.0	1658.4	1172.7	834.4	490.9
87.5°	39.9	48.6	62.5	121.4	369.5	364.3	373.0	232.5	329.6	248.1
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°
3322.1	0°	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1	3322.1
3348.1	2.5°	3337.7	3332.5	3313.4	3304.7	3294.3	3292.6	3301.3	3303.0	3304.7	3306.5
3386.3	5°	3368.9	3351.6	3334.2	3323.8	3327.3	3329.0	3346.4	3358.5	3367.2	3374.1
3457.4	7.5°	3429.7	3415.8	3386.3	3384.5	3389.8	3405.4	3427.9	3455.7	3471.3	3483.4
3549.4	10°	3519.9	3493.8	3459.1	3464.3	3474.8	3497.3	3544.1	3566.7	3592.7	3615.3
3662.1	12.5°	3611.8	3589.3	3549.4	3552.8	3570.2	3610.1	3655.2	3682.9	3700.3	3717.6
3783.5	15°	3731.5	3691.6	3648.2	3648.2	3679.5	3722.8	3743.6	3766.2	3776.6	3795.7
3913.7	17.5°	3854.7	3802.6	3745.4	3741.9	3780.1	3800.9	3813.0	3816.5	3820.0	3840.8
4040.3	20°	3977.8	3920.6	3839.1	3832.1	3840.8	3837.3	3835.6	3832.1	3837.3	3863.3
4170.4	22.5°	4099.3	4033.4	3920.6	3889.4	3865.1	3832.1	3830.4	3828.7	3832.1	3858.1
4310.9	25°	4241.5	4161.7	4010.8	3917.1	3835.6	3790.5	3795.7	3797.4	3800.9	3821.7
4456.6	27.5°	4395.9	4307.4	4094.1	3908.5	3761.0	3729.8	3721.1	3726.3	3738.4	3771.4
4602.4	30°	4550.3	4446.2	4170.4	3873.8	3667.3	3623.9	3596.2	3608.3	3646.5	3679.5
4729.0	32.5°	4690.8	4586.7	4231.1	3797.4	3547.6	3480.0	3443.5	3459.1	3497.3	3509.5
4869.5	35°	4855.6	4737.7	4257.1	3676.0	3417.5	3313.4	3264.8	3242.3	3261.4	3249.2
5034.3	37.5°	5039.5	4916.4	4253.7	3516.4	3264.8	3145.1	3077.5	2992.5	2952.6	2911.0
5277.2	40°	5311.9	5134.9	4212.0	3323.8	3075.8	2966.5	2845.0	2701.0	2610.8	2529.3
5669.2	42.5°	5683.1	5438.5	4135.7	3112.2	2862.4	2760.0	2595.2	2427.0	2284.7	2149.4
6264.3	45°	6236.5	5835.8	4040.3	2886.7	2631.7	2531.0	2352.4	2163.3	2001.9	1828.5
7109.1	47.5°	7034.5	6370.1	3950.1	2629.9	2388.8	2296.8	2135.5	1960.3	1769.5	1601.2
8330.4	50°	8130.9	7136.9	3866.8	2380.1	2149.4	2080.0	1951.6	1772.9	1580.4	1445.1
9761.6	52.5°	9525.7	8179.5	3832.1	2139.0	1925.6	1899.6	1797.2	1630.7	1448.5	1334.0
11430.4	55°	11126.9	9426.8	3832.1	1908.3	1729.6	1738.2	1667.1	1512.7	1354.9	1252.5
13151.3	57.5°	12761.0	10689.7	3762.7	1694.9	1563.0	1599.5	1554.4	1419.0	1276.8	1171.0
14960.7	60°	14266.8	11747.9	3481.7	1500.6	1415.6	1472.8	1443.3	1327.1	1153.6	1065.2
16473.4	62.5°	15423.9	12344.7	2940.4	1346.2	1294.1	1360.1	1344.5	1205.7	1131.1	1094.6
17715.5	65°	16003.3	12247.5	2248.3	1209.1	1191.8	1294.1	1261.2	1256.0	1197.0	1155.4
18119.7	67.5°	15647.7	11411.4	1630.7	1108.5	1132.8	1233.4	1360.1	1380.9	1271.6	1190.1
16981.7	70°	14088.1	9898.6	1214.3	1013.1	1058.2	1235.2	1550.9	1445.1	1247.3	1151.9
13619.7	72.5°	10717.4	7381.5	942.0	912.5	961.1	1243.8	1635.9	1415.6	1177.9	1273.3
8484.8	75°	6129.0	4052.4	756.4	789.3	839.6	1162.3	1592.5	1339.2	1124.1	1169.2
3362.0	77.5°	2336.7	1557.8	624.5	667.9	674.8	1014.8	1523.1	1334.0	1070.4	1044.3
1007.9	80°	810.1	608.9	517.0	530.8	522.2	902.1	1460.7	1160.6	876.1	784.1
416.3	82.5°	331.3	303.6	409.4	392.1	371.2	700.8	1179.6	948.9	716.5	633.2
201.2	85°	144.0	192.6	270.6	237.7	215.1	485.7	945.5	803.2	605.4	522.2
65.9	87.5°	29.5	72.9	114.5	107.6	111.0	324.4	671.4	570.7	428.5	320.9
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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180°  
3322.1  
3313.4  
3377.6  
3486.9  
3610.1  
3724.6  
3802.6  
3847.7  
3873.8  
3875.5  
3849.5  
3804.4  
3715.9  
3552.8  
3287.4  
2937.0  
2534.5  
2137.2  
1807.6  
1582.1  
1436.4  
1325.4  
1242.1  
1153.6  
1051.3  
1082.5  
1141.5  
1176.2  
1136.3  
*1262.9*  
1169.2  
952.4  
758.1  
626.3  
520.4  
251.5  
0.0

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