

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: P956218

Luminaire Tested: **GALN-SB8D-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

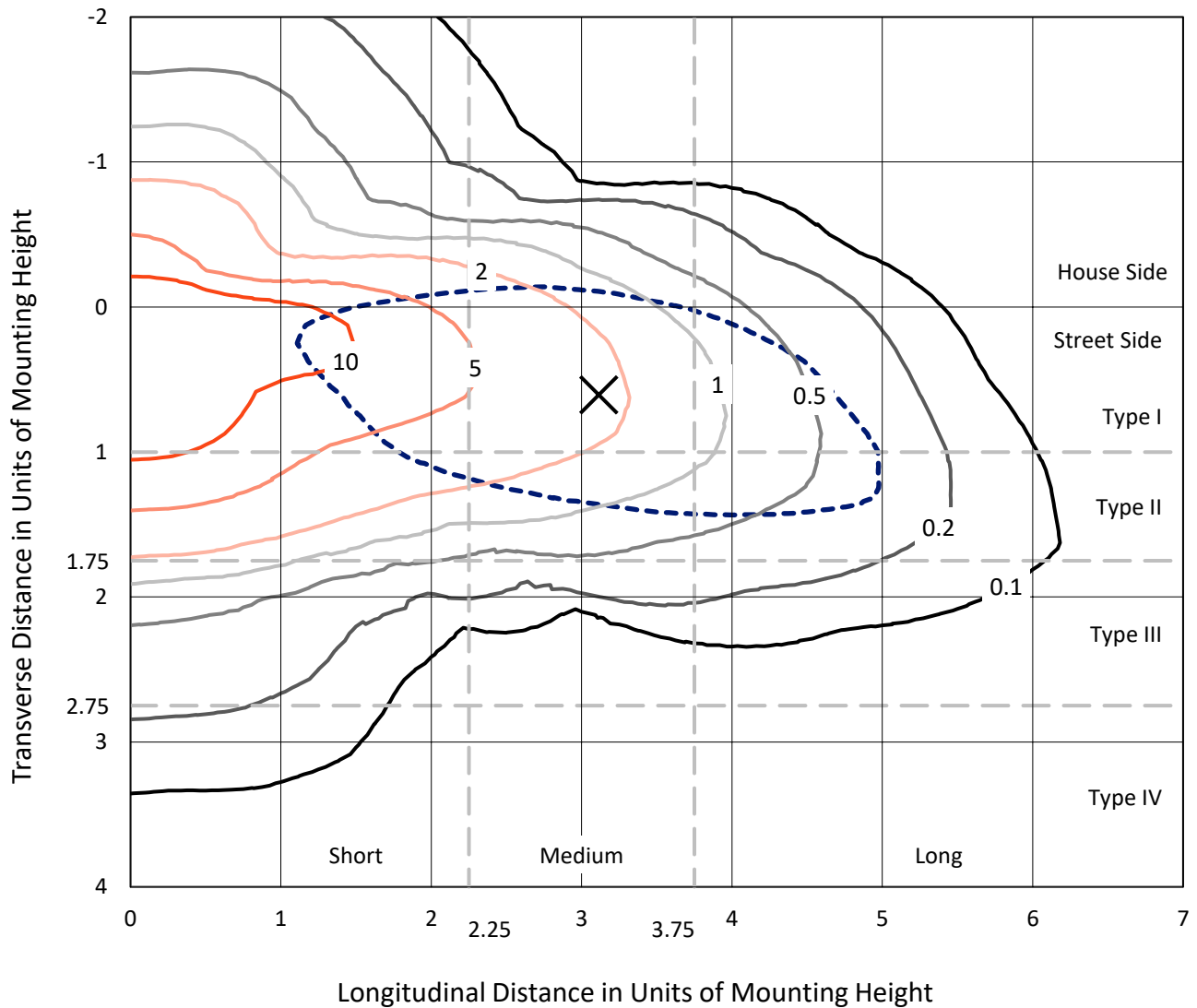
Lumens per Lamp: N/A  
Luminaire Lumens: 59266 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

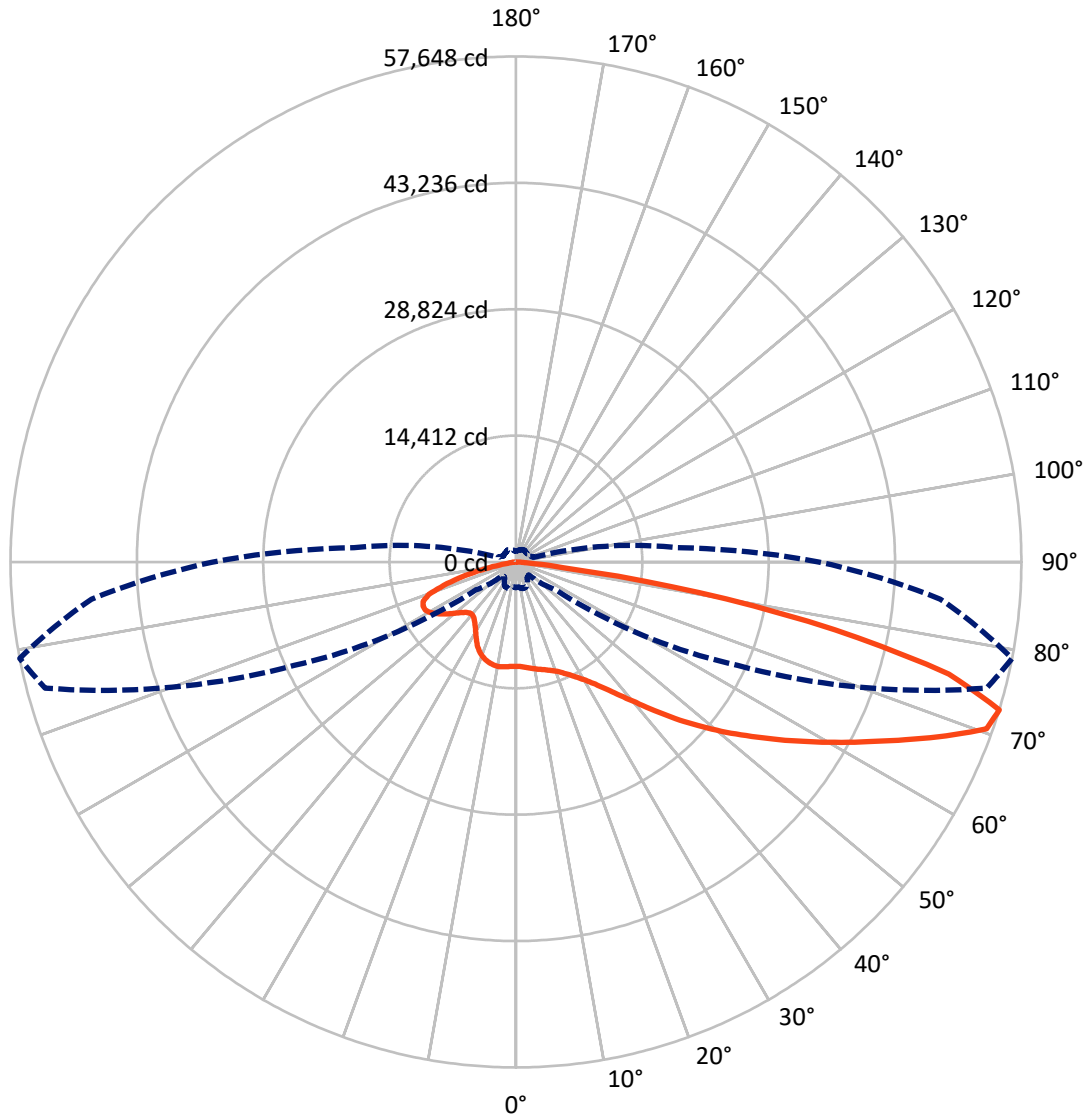
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13041.8	0.0	13041.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	46224.2	0.0	46224.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	59266.0	0.0	59266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1079.9	1.8
10°-20°	2823.4	4.8
20°-30°	4555.9	7.7
30°-40°	6837.7	11.5
40°-50°	9699.7	16.4
50°-60°	12249.4	20.7
60°-70°	12440.9	21.0
70°-80°	8479.0	14.3
80°-90°	1100.1	1.9
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°	59266.0	100.0
0°-180°	59266.0	100.0



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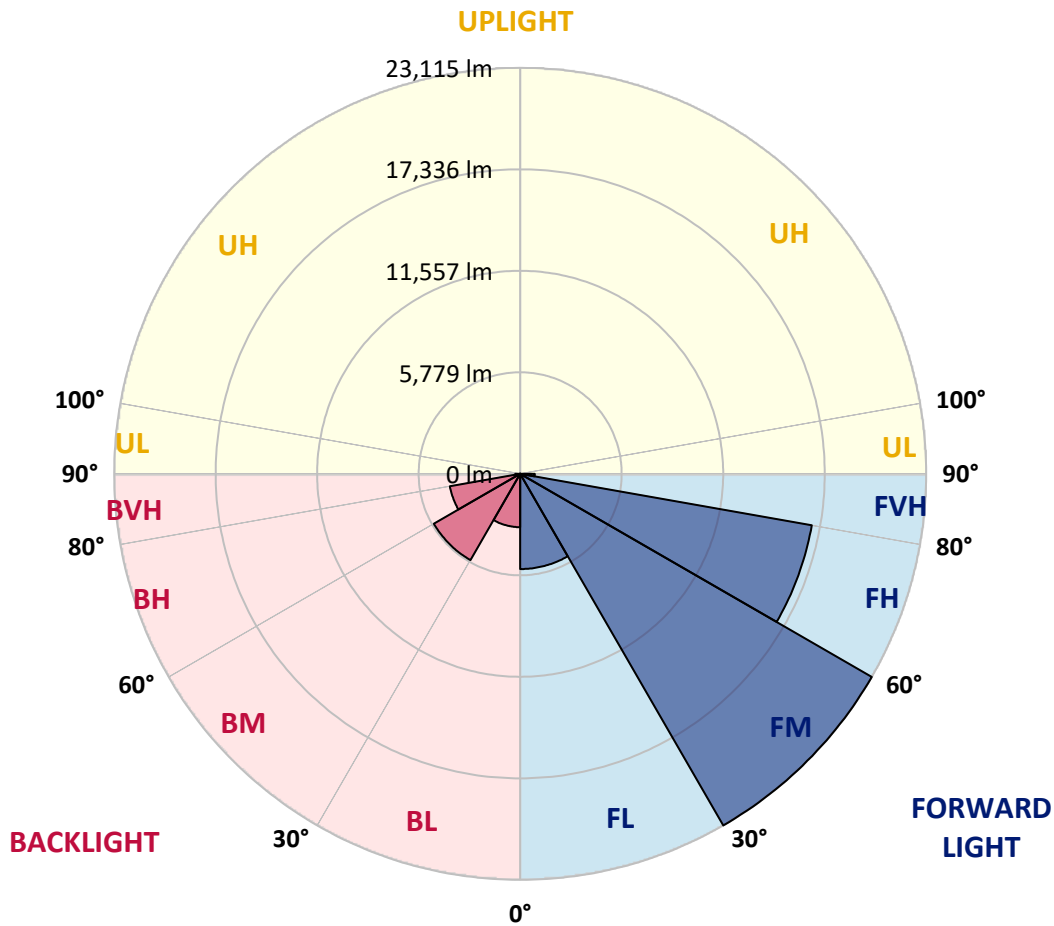
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5421.4	9.1			
FM (30°-60°)	23115.0	39.0			
FH (60°-80°)	16859.2	28.4			G5
FVH (80°-90°)	828.7	1.4			G5
BL (0°-30°)	3037.8	5.1	B4/5000		
BM (30°-60°)	5671.8	9.6	B4/8500		
BH (60°-80°)	4060.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	271.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1
2.5°	11903.4	11846.9	11881.4	11868.9	11884.5	11903.4	11909.6	11919.0	11950.4	11947.2
5°	11878.3	11821.8	11868.9	11853.2	11894.0	11937.8	11975.5	12009.9	12060.1	12082.0
7.5°	11825.0	11787.4	11834.4	11881.4	11956.6	12022.5	12075.8	12154.2	12226.3	12238.8
10°	11514.6	11486.4	11596.1	11718.4	11925.3	12104.0	12220.0	12310.9	12389.3	12401.8
12.5°	11191.7	11157.2	11279.5	11445.7	11781.1	12104.0	12348.5	12467.6	12536.6	12577.4
15°	11138.4	11110.2	11179.2	11323.4	11602.4	12019.3	12436.3	12655.7	12715.3	12762.3
17.5°	11395.5	11342.2	11370.4	11420.6	11583.6	11941.0	12505.3	12868.9	12959.8	13010.0
20°	11991.1	11915.9	11872.0	11771.7	11743.5	11953.5	12499.0	13126.0	13245.1	13307.8
22.5°	12784.3	12734.1	12640.1	12386.1	12110.3	12107.1	12618.1	13455.1	13677.7	13737.3
25°	13743.6	13668.3	13549.2	13204.4	12674.6	12411.2	12818.8	13875.2	14248.3	14264.0
27.5°	14847.1	14734.2	14571.2	14116.6	13401.9	12887.7	13126.0	14358.0	14903.5	14897.2
30°	16010.1	15897.3	15724.8	15173.1	14273.4	13530.4	13552.3	14878.4	15681.0	15646.5
32.5°	16859.7	16775.0	16740.6	16314.2	15276.5	14289.0	14041.4	15455.2	16640.2	16608.9
35°	17511.8	17402.0	17442.8	17226.5	16370.6	15138.6	14640.2	16141.8	17806.4	17803.3
37.5°	18157.6	18060.4	18094.9	17950.6	17383.2	16217.0	15370.6	16982.0	19251.6	19320.6
40°	18746.9	18643.5	18781.4	18646.6	18170.1	17364.4	16201.4	17931.8	20925.7	21057.4
42.5°	19101.2	19019.7	19248.5	19251.6	18853.5	18333.1	17113.6	18978.9	22863.1	23157.8
45°	19223.4	19195.2	19540.1	19612.2	19458.6	18894.3	17935.0	20120.0	24951.0	25477.6
47.5°	19091.8	19038.5	19515.0	19781.5	19903.7	19157.6	18615.3	21355.2	27082.7	27853.9
50°	18427.2	18323.7	19032.2	19593.4	20029.1	19330.0	19301.8	22781.6	29506.0	30349.3
52.5°	17232.7	17154.4	17960.1	18935.0	19753.2	19414.7	20073.0	24339.7	31807.1	32898.0
55°	15706.0	15602.6	16489.8	17762.6	19066.7	19386.5	20844.2	26082.7	34521.9	35628.6
57.5°	13285.9	13079.0	14201.3	15706.0	17947.5	19352.0	21646.7	27816.3	37280.7	38606.7
60°	9755.9	9448.7	10824.9	12608.7	15759.3	19016.5	22640.5	29760.0	40591.2	41785.6
62.5°	5680.5	5501.8	6401.5	8066.2	11878.3	17041.5	23198.5	32020.2	43845.2	45099.2
65°	4410.9	4360.7	4439.1	4567.6	6611.6	12759.2	21477.5	34224.1	47983.3	48861.1
67.5°	4034.7	3997.0	4031.5	3790.1	3354.4	7106.9	16991.4	34782.1	52416.1	52949.1
70°	3586.4	3542.5	3655.3	3448.4	2639.6	3232.1	10978.5	32757.0	55943.0	56943.0
72.5°	2921.8	2871.6	3134.9	3040.9	2222.7	2075.3	5514.4	27944.8	55573.0	57648.4
75°	2244.6	2216.4	2529.9	2608.3	1812.0	1633.3	2645.9	20772.1	48905.0	50996.0
77.5°	1743.0	1721.1	1881.0	2166.2	1460.9	1266.5	1627.0	13176.1	36854.3	37221.1
80°	1307.3	1244.6	1391.9	1677.2	1138.0	924.8	1103.5	7683.7	23295.7	21116.9
82.5°	818.2	786.9	909.1	1119.2	802.5	636.4	717.9	4244.7	9335.8	5498.7
85°	467.1	454.6	495.3	639.5	435.8	366.8	410.7	1874.7	1705.4	1172.5
87.5°	188.1	181.8	225.7	285.3	159.9	134.8	144.2	451.4	376.2	348.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11897.1	0°	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1	11897.1
11944.1	2.5°	11931.6	11931.6	11887.7	11818.7	11740.3	11690.2	11608.7	11586.7	11502.1	11477.0
12050.7	5°	12075.8	12050.7	11915.9	11721.5	11455.1	11210.5	10940.9	10771.6	10533.4	10448.7
12260.7	7.5°	12257.6	12188.6	11956.6	11530.3	10972.3	10423.7	9853.1	9420.5	9006.7	8859.3
12433.2	10°	12423.8	12326.6	11931.6	11185.5	10219.9	9270.0	8360.9	7724.5	7241.7	7044.2
12624.4	12.5°	12589.9	12411.2	11765.4	10611.8	9150.9	7862.4	6893.7	6398.4	6100.6	5862.3
12781.1	15°	12746.7	12495.9	11508.4	9843.7	7978.4	6671.1	5956.4	5561.4	5323.1	5166.4
13010.0	17.5°	12928.5	12568.0	11122.8	8868.7	6862.4	5846.7	5263.6	5025.3	4978.3	4959.5
13323.5	20°	13182.4	12633.8	10614.9	7777.8	6041.0	5188.3	4887.4	4865.4	4862.3	4852.9
13699.7	22.5°	13455.1	12712.2	9944.0	6787.1	5341.9	4777.6	4724.4	4680.5	4652.2	4649.1
14154.2	25°	13778.0	12737.2	9103.9	5975.2	4746.3	4583.3	4520.6	4454.7	4435.9	4435.9
14671.5	27.5°	14091.5	12652.6	8125.8	5269.8	4410.9	4404.6	4323.1	4301.1	4298.0	4307.4
15260.9	30°	14405.0	12492.7	7153.9	4617.8	4216.5	4216.5	4188.3	4204.0	4216.5	4247.8
16069.7	32.5°	14828.3	12323.4	6342.0	4135.0	4047.2	4015.9	4044.1	4075.4	4088.0	4128.7
17132.4	35°	15449.0	12204.3	5696.2	3871.6	3871.6	3830.9	3846.6	3840.3	3812.1	3793.3
18417.8	37.5°	16270.3	12198.0	5163.2	3749.4	3724.3	3718.0	3721.2	3680.4	3570.7	3439.0
19972.7	40°	17257.8	12367.3	4752.6	3664.7	3645.9	3683.6	3664.7	3555.0	3254.1	3025.2
21885.0	42.5°	18583.9	12850.1	4489.2	3561.3	3617.7	3664.7	3589.5	3210.2	3006.4	2852.8
24063.8	45°	20145.1	13633.8	4354.4	3451.6	3564.4	3620.9	3257.2	3091.0	2928.0	2743.1
26440.1	47.5°	21913.2	14621.3	4323.1	3348.1	3445.3	3479.8	3116.1	3040.9	2855.9	2655.3
28828.9	50°	23838.1	15790.7	4407.7	3225.9	3272.9	3153.7	3069.1	3000.1	2808.9	2611.4
31277.3	52.5°	25828.7	17079.1	4577.0	3059.7	3100.5	2968.8	3050.3	2990.7	2780.7	2514.2
33807.2	55°	27784.9	18377.0	4740.0	2865.3	2924.9	2802.6	2997.0	2953.1	2652.2	2351.2
36506.3	57.5°	29772.5	19668.6	4899.9	2692.9	2755.6	2642.8	2912.4	2852.8	2507.9	2200.7
39453.2	60°	31838.4	20922.6	4975.1	2526.8	2570.6	2495.4	2783.8	2680.4	2344.9	2047.1
42349.9	62.5°	33772.7	21966.5	4852.9	2360.6	2388.8	2357.5	2614.5	2476.6	2181.9	1874.7
45368.8	65°	35713.2	22587.2	4476.7	2197.6	2203.9	2188.2	2376.3	2257.2	1990.7	1724.2
48011.6	67.5°	37471.9	22935.2	3877.9	2022.0	2006.4	2000.1	2153.7	2018.9	1805.7	1573.7
50021.1	70°	37845.0	22051.1	2962.5	1815.1	1815.1	1799.5	1909.2	1771.2	1602.0	1413.9
48582.1	72.5°	34565.8	18549.4	2103.5	1580.0	1605.1	1573.7	1664.7	1548.7	1395.0	1269.6
41870.2	75°	27872.7	13602.5	1529.8	1338.6	1382.5	1329.2	1413.9	1332.3	1200.7	1197.5
28854.0	77.5°	19151.3	8411.0	1109.8	1103.5	1134.8	1065.9	1163.1	1119.2	1000.0	946.8
12558.6	80°	8172.8	3354.4	808.8	852.7	852.7	790.0	902.9	915.4	811.9	786.9
2423.3	82.5°	1627.0	953.0	567.4	586.2	551.7	532.9	639.5	708.5	978.1	1087.8
730.4	85°	489.1	351.1	341.7	319.8	282.1	285.3	376.2	711.6	877.8	501.6
241.4	87.5°	134.8	87.8	90.9	72.1	59.6	78.4	128.5	539.2	294.7	125.4
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>
11897.1
11517.8
10511.4
8878.1
7088.1
5940.7
5194.6
4972.0
4884.2
4683.6
4454.7
4332.5
4269.8
4163.2
3837.2
3442.2
3018.9
2846.5
2730.5
2639.6
2589.5
2495.4
2335.5
2194.5
2037.7
1871.6
1705.4
1554.9
1407.6
1232.0
1078.4
887.2
786.9
1091.0
432.6
106.6
0.0

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