

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: P956692

Luminaire Tested: **GALN-SB9B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956692
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-SB9B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52654 lumens
Efficiency: N/A
Efficacy: 159.8 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

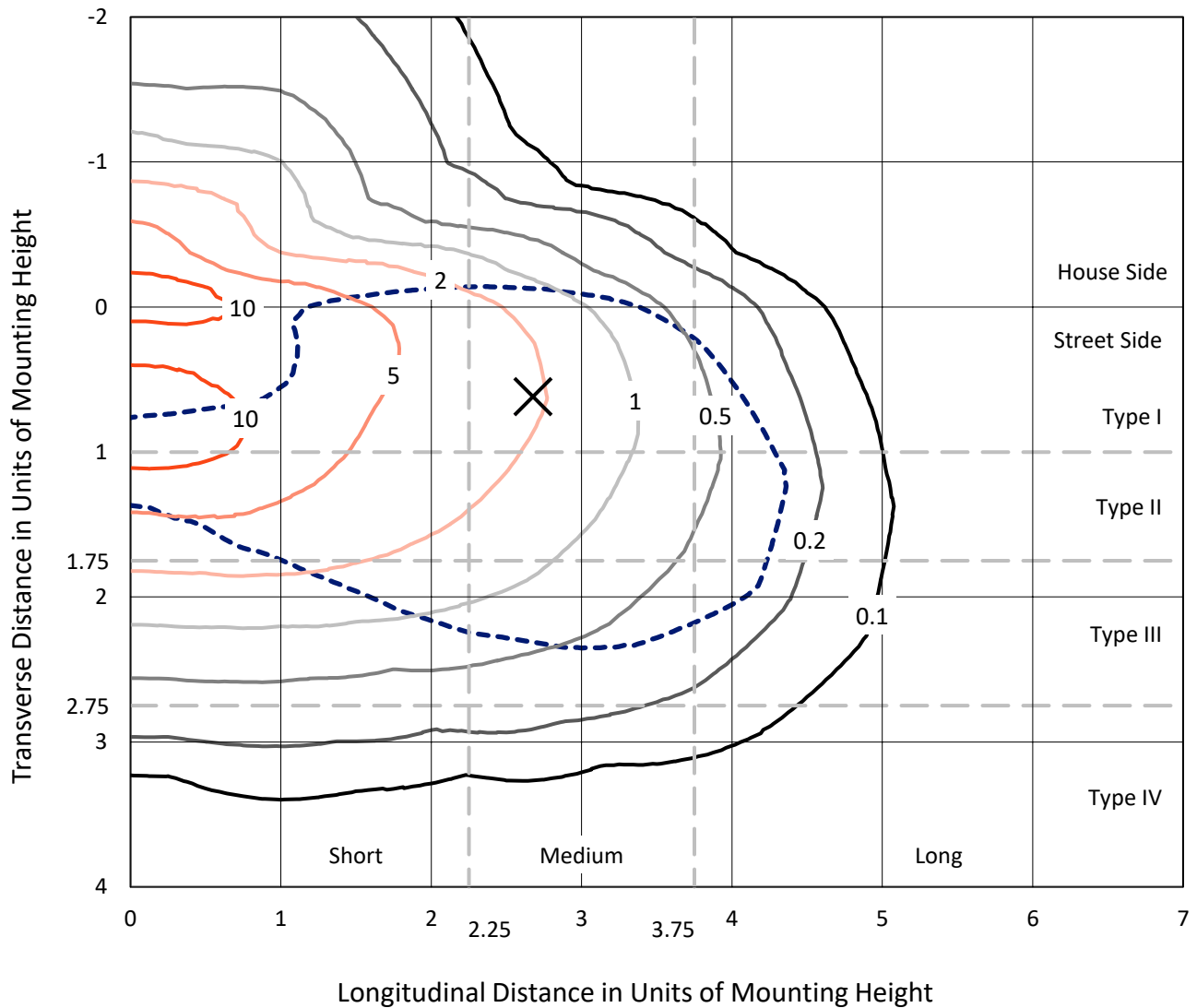
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956692
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Iso-Footcandle Lines of Horizontal Illumination

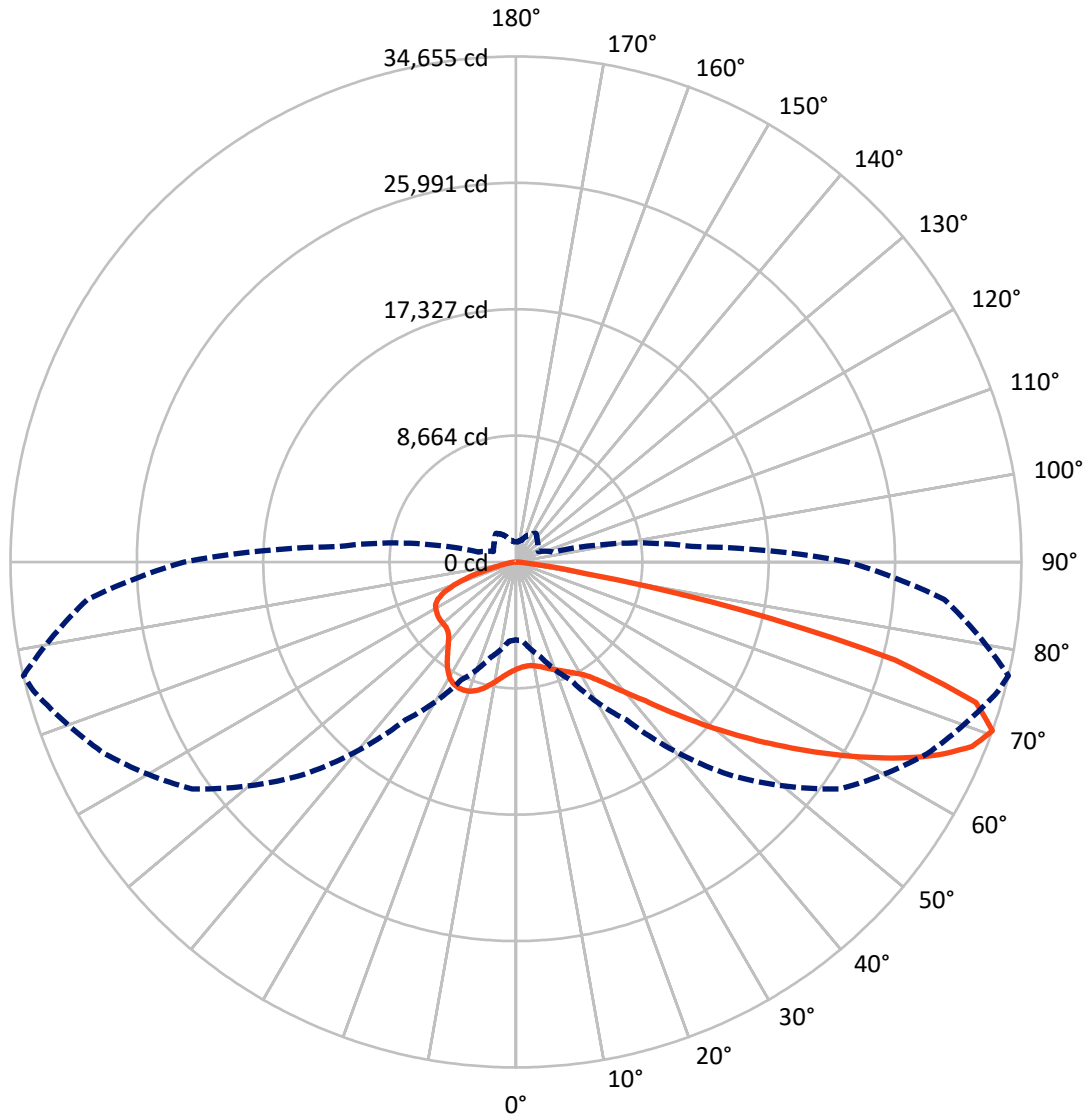
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P956692
CATALOG NUMBER: GALN-SB9B-735-U-T3R

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
House Side	Lumens	11530.4	0.0	11530.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	41123.6	0.0	41123.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	52654.0	0.0	52654.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.6	1.3
10°-20°	2022.0	3.8
20°-30°	3457.8	6.6
30°-40°	5560.5	10.6
40°-50°	8681.5	16.5
50°-60°	11596.3	22.0
60°-70°	12359.9	23.5
70°-80°	7608.7	14.5
80°-90°	666.7	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°	52654.0	100.0
0°-180°	52654.0	100.0



REPORT NUMBER: P956692

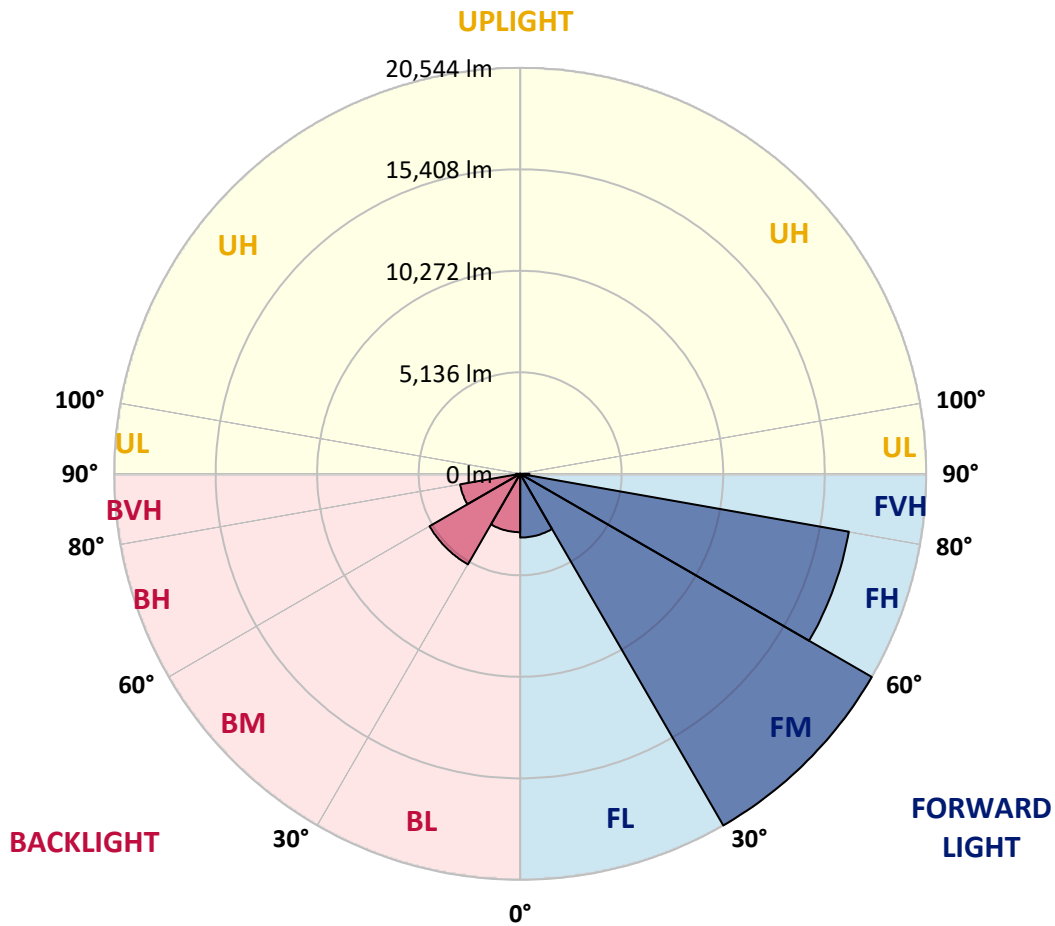
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3225.9	6.1			
FM (30°-60°)	20544.4	39.0			
FH (60°-80°)	16887.0	32.1			G5
FVH (80°-90°)	466.2	0.9			G3/500
BL (0°-30°)	2954.5	5.6	B4/5000		
BM (30°-60°)	5293.9	10.1	B4/8500		
BH (60°-80°)	3081.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	200.5	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



REPORT NUMBER: P956692
 CATALOG NUMBER: GALN-SB9B-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7
2.5°	6771.3	6768.6	6803.7	6814.5	6879.2	6925.0	7011.3	7103.0	7221.7	7235.2
5°	6380.3	6380.3	6420.8	6463.9	6547.5	6639.2	6771.3	6930.4	7135.4	7167.7
7.5°	6048.6	6070.2	6105.2	6188.8	6285.9	6418.1	6620.3	6846.8	7116.5	7167.7
10°	5781.6	5805.9	5849.1	5916.5	6062.1	6245.5	6509.7	6801.0	7162.3	7243.2
12.5°	5698.1	5722.3	5746.6	5797.8	5932.7	6148.4	6463.9	6822.6	7272.9	7353.8
15°	5892.2	5921.9	5903.0	5889.5	5959.6	6156.5	6485.5	6900.8	7410.4	7526.4
17.5°	6339.9	6350.6	6307.5	6180.8	6170.0	6275.1	6588.0	7008.6	7583.0	7709.8
20°	7062.6	7043.7	6954.7	6703.9	6561.0	6539.4	6763.2	7170.4	7761.0	7895.8
22.5°	8044.1	8022.6	7844.6	7448.2	7130.0	6919.6	7016.7	7380.8	7960.6	8111.6
25°	9268.4	9238.8	8977.2	8437.9	7944.4	7423.9	7361.9	7658.5	8205.9	8346.2
27.5°	10697.7	10673.4	10390.2	9678.3	8966.4	8114.3	7790.7	7984.8	8462.1	8621.2
30°	12234.8	12304.9	11803.3	11037.4	10136.8	9014.9	8367.7	8386.6	8793.8	8936.7
32.5°	14041.5	14162.9	13558.8	12588.0	11358.3	9993.8	9095.8	8947.5	9276.5	9395.2
35°	15832.1	15969.6	15468.1	14394.8	12979.0	11148.0	9856.3	9592.0	9918.3	10047.8
37.5°	17380.0	17563.4	17304.5	16371.4	14713.0	12539.5	10848.7	10349.8	10708.5	10870.3
40°	18601.6	18882.0	18863.2	18280.7	16757.1	14227.6	12108.0	11285.5	11690.0	11865.3
42.5°	19594.0	19836.7	20047.0	20017.3	18890.1	16144.9	13588.5	12501.7	12809.2	13011.4
45°	20278.9	20537.8	20990.8	21478.9	20942.3	18197.1	15284.7	13944.5	14224.9	14529.6
47.5°	20891.1	21185.0	21772.9	22546.8	22684.3	20257.3	17142.7	15624.5	15880.7	16196.2
50°	20945.0	21198.5	22109.9	23207.5	23922.1	22236.7	19138.2	17509.4	17749.4	18086.5
52.5°	19642.5	20041.6	21632.6	23188.6	24491.1	23892.4	21120.3	19469.9	19739.6	20144.1
55°	15246.9	15832.1	20233.1	22465.9	24288.9	24963.0	23005.2	21554.4	21899.6	22323.0
57.5°	13132.8	13388.9	16061.3	21149.9	23366.6	25240.8	24596.3	23660.5	24216.0	24679.9
60°	11803.3	12016.3	13596.6	19103.2	22153.1	24801.2	25826.0	25623.7	26583.7	27136.5
62.5°	10379.5	10581.7	12019.0	15950.8	20599.8	24070.4	26602.6	27435.9	29010.7	29614.8
65°	8966.4	9139.0	10517.0	13402.4	18625.9	23339.6	27004.4	29002.6	31257.0	31882.7
67.5°	7391.6	7534.5	8837.0	11307.1	16225.8	22339.2	27203.9	30235.0	33212.1	33748.8
70°	5334.0	5444.6	6790.2	8942.1	13213.7	20618.7	27123.0	31108.7	34226.1	34654.8
72.5°	2521.4	2621.2	4201.4	5805.9	9333.2	17269.4	25486.2	30415.7	33195.9	32982.9
75°	1345.6	1431.9	2413.5	3184.8	4929.5	11838.4	20856.0	26200.8	27875.4	26839.9
77.5°	911.5	978.9	1494.0	1911.9	2251.7	5619.8	13405.1	18140.5	17452.8	15743.1
80°	722.7	792.8	1224.3	1294.4	1089.5	2030.6	5538.9	8397.4	6032.4	4824.3
82.5°	555.5	633.7	1030.1	938.4	593.3	833.3	1612.6	2656.2	1545.2	1175.7
85°	339.8	423.4	809.0	598.7	334.4	380.2	547.4	738.9	471.9	393.7
87.5°	172.6	242.7	409.9	218.4	151.0	89.0	145.6	145.6	124.0	107.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956692
 CATALOG NUMBER: GALN-SB9B-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7345.7	0°	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7	7345.7
7308.0	2.5°	7372.7	7426.6	7518.3	7604.6	7672.0	7736.7	7801.4	7836.5	7847.3	7890.4
7348.4	5°	7459.0	7558.7	7736.7	7903.9	8009.1	8073.8	8119.7	8146.6	8152.0	8165.5
7459.0	7.5°	7618.1	7777.2	8025.3	8192.5	8270.7	8265.3	8246.4	8179.0	8152.0	8127.7
7620.8	10°	7841.9	8052.2	8357.0	8472.9	8424.4	8294.9	8127.7	7930.9	7839.2	7750.2
7841.9	12.5°	8119.7	8386.6	8686.0	8680.6	8440.6	8108.9	7720.5	7418.5	7227.1	7089.5
8114.3	15°	8456.7	8764.2	8993.4	8810.0	8284.2	7688.2	7119.2	6725.5	6552.9	6401.9
8389.3	17.5°	8804.6	9133.6	9238.8	8769.6	7890.4	7065.3	6420.8	6110.6	5940.8	5859.9
8686.0	20°	9144.4	9470.7	9384.4	8537.6	7291.8	6358.7	5784.3	5614.5	5579.4	5598.3
8974.5	22.5°	9503.0	9794.3	9414.1	8090.0	6528.6	5636.0	5320.5	5325.9	5404.1	5460.7
9276.5	25°	9869.8	10066.6	9335.9	7442.8	5708.8	5104.8	5026.6	5112.9	5266.6	5377.1
9616.3	27.5°	10223.1	10309.3	9166.0	6641.9	5005.0	4724.6	4738.0	4916.0	5147.9	5301.6
10028.9	30°	10622.2	10525.1	8839.7	5741.2	4516.9	4398.3	4511.5	4719.2	4951.1	5088.6
10549.4	32.5°	11072.5	10711.2	8321.9	4907.9	4171.7	4136.7	4322.8	4457.6	4560.1	4600.5
11239.7	35°	11633.4	10972.7	7658.5	4322.8	3861.6	3945.2	4123.2	4055.8	4015.3	3993.8
12167.3	37.5°	12361.5	11326.0	6881.9	3942.5	3610.8	3807.7	3880.5	3670.2	3511.1	3432.9
13291.9	40°	13237.9	11843.7	6134.9	3648.6	3451.7	3689.0	3562.3	3308.8	3106.6	2996.0
14556.6	42.5°	14211.4	12385.8	5506.6	3427.5	3362.7	3592.0	3327.7	3025.7	2699.4	2664.3
16064.0	45°	15233.5	12944.0	5077.8	3257.6	3319.6	3508.4	3192.9	2704.8	2472.8	2615.8
17576.9	47.5°	16255.5	13456.4	4818.9	3130.8	3298.0	3414.0	3074.2	2526.8	2362.3	2569.9
19197.6	50°	17393.5	13914.8	4703.0	3039.1	3273.8	3376.2	2896.2	2480.9	2246.3	2383.9
20874.9	52.5°	18523.4	14270.7	4616.7	2947.5	3238.7	3346.6	2809.9	2427.0	2106.1	2114.2
22563.0	55°	19650.6	14502.7	4522.3	2826.1	3160.5	3281.8	2801.8	2367.7	2000.9	1963.2
24348.2	57.5°	20853.3	14634.8	4406.3	2691.3	3025.7	3117.3	2793.7	2321.8	1968.6	1906.5
26173.8	60°	22077.6	14829.0	4255.3	2526.8	2845.0	2920.5	2774.9	2305.6	1949.7	1844.5
27894.3	62.5°	23175.1	14896.4	4074.7	2370.4	2613.1	2726.3	2734.4	2292.2	1898.5	1717.8
29323.5	65°	23895.1	14605.1	3759.1	2192.4	2362.3	2526.8	2656.2	2246.3	1806.8	1626.1
30030.1	67.5°	23865.5	13774.6	3265.7	1963.2	2119.6	2305.6	2543.0	2168.1	1696.2	1512.8
29496.1	70°	22754.5	12135.0	2640.0	1696.2	1852.6	2068.3	2397.3	2052.2	1564.1	1388.8
26227.8	72.5°	19515.8	9497.7	1917.3	1383.4	1542.5	1822.9	2208.6	1911.9	1429.2	1278.2
19383.6	75°	13941.8	6010.9	1299.8	1062.5	1200.0	1545.2	1974.0	1747.4	1305.2	1283.6
9708.0	77.5°	7121.9	2871.9	860.2	776.6	836.0	1218.9	1658.4	1561.4	1324.1	1059.8
2761.4	80°	2316.4	1059.8	542.0	528.5	555.5	811.7	1283.6	1280.9	1003.2	720.0
668.8	82.5°	738.9	455.7	353.3	339.8	326.3	509.7	895.3	1013.9	676.9	455.7
240.0	85°	293.9	272.4	207.6	191.5	137.5	240.0	469.2	674.2	504.3	329.0
62.0	87.5°	107.9	107.9	56.6	40.4	29.7	80.9	126.7	202.2	288.5	169.9
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°
7345.7
7914.7
8187.1
8133.1
7723.2
7057.2
6385.7
5884.1
5590.2
5474.2
5406.8
5339.4
5121.0
4622.1
4015.3
3451.7
3004.1
2699.4
2691.3
2667.0
2486.3
2170.8
1990.1
1914.6
1852.6
1717.8
1626.1
1520.9
1405.0
1270.1
1210.8
943.8
636.4
453.0
337.1
167.2
0.0

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