

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: P955980

Luminaire Tested: **GALN-SB8D-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955980  
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-SB8D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

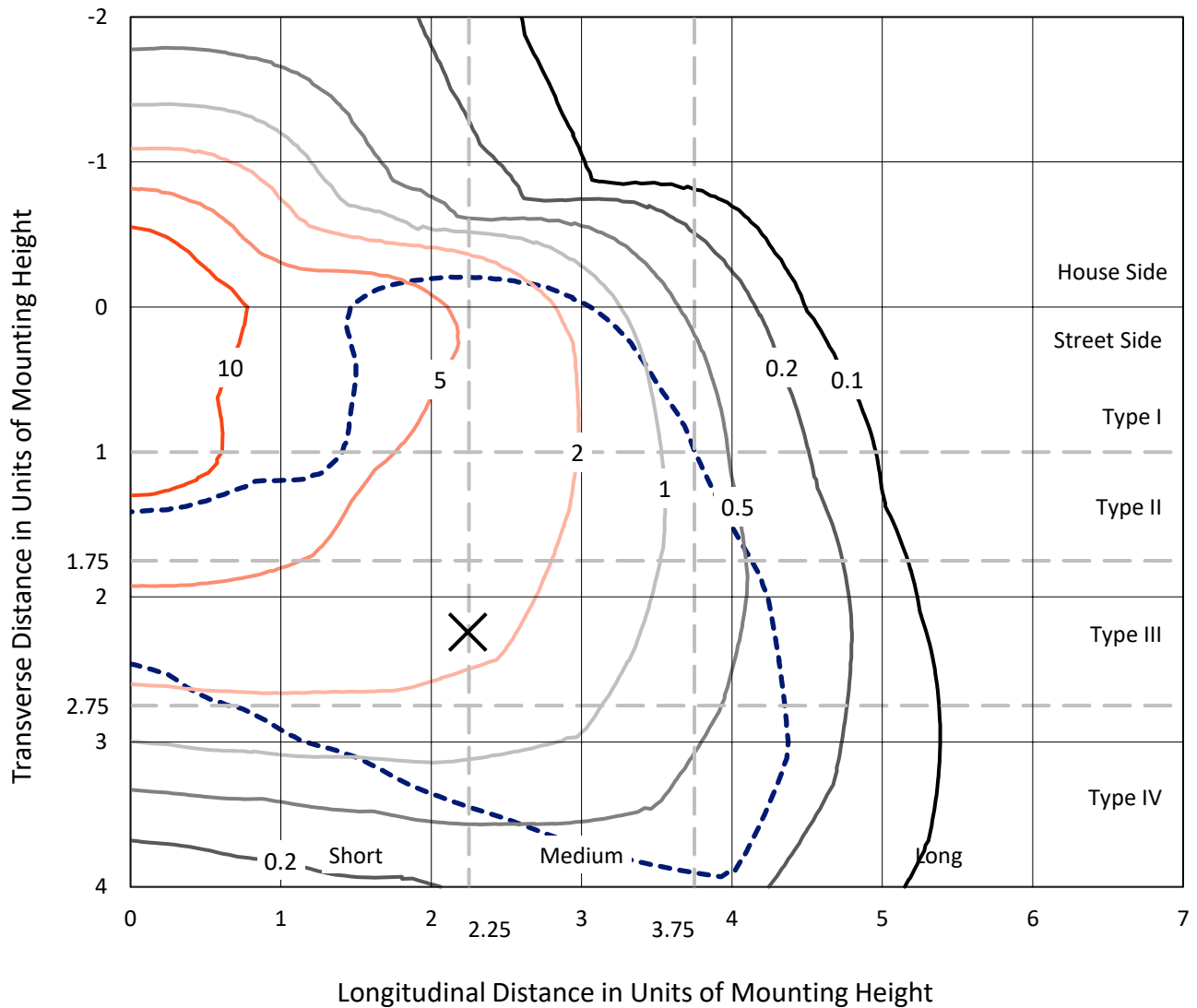
Lumens per Lamp: N/A  
Luminaire Lumens: 82124 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

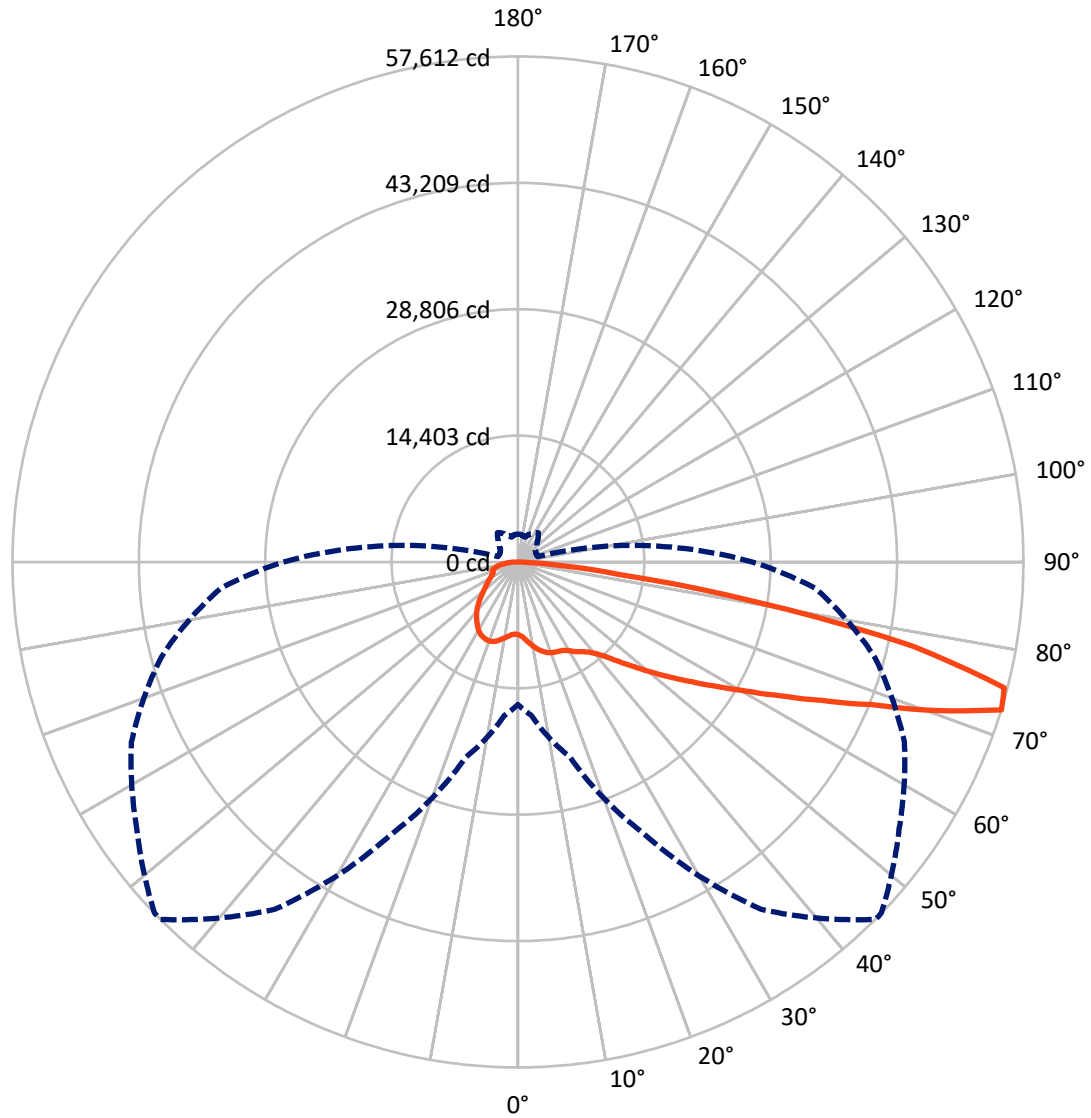
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18565.4	0.0	18565.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	63558.6	0.0	63558.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	82124.0	0.0	82124.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.2	1.0
10°-20°	2811.4	3.4
20°-30°	4890.6	6.0
30°-40°	7010.9	8.5
40°-50°	9871.8	12.0
50°-60°	15120.7	18.4
60°-70°	21904.6	26.7
70°-80°	17492.1	21.3
80°-90°	2178.6	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°	82124.0	100.0
0°-180°	82124.0	100.0

**Coefficient of Utilization**



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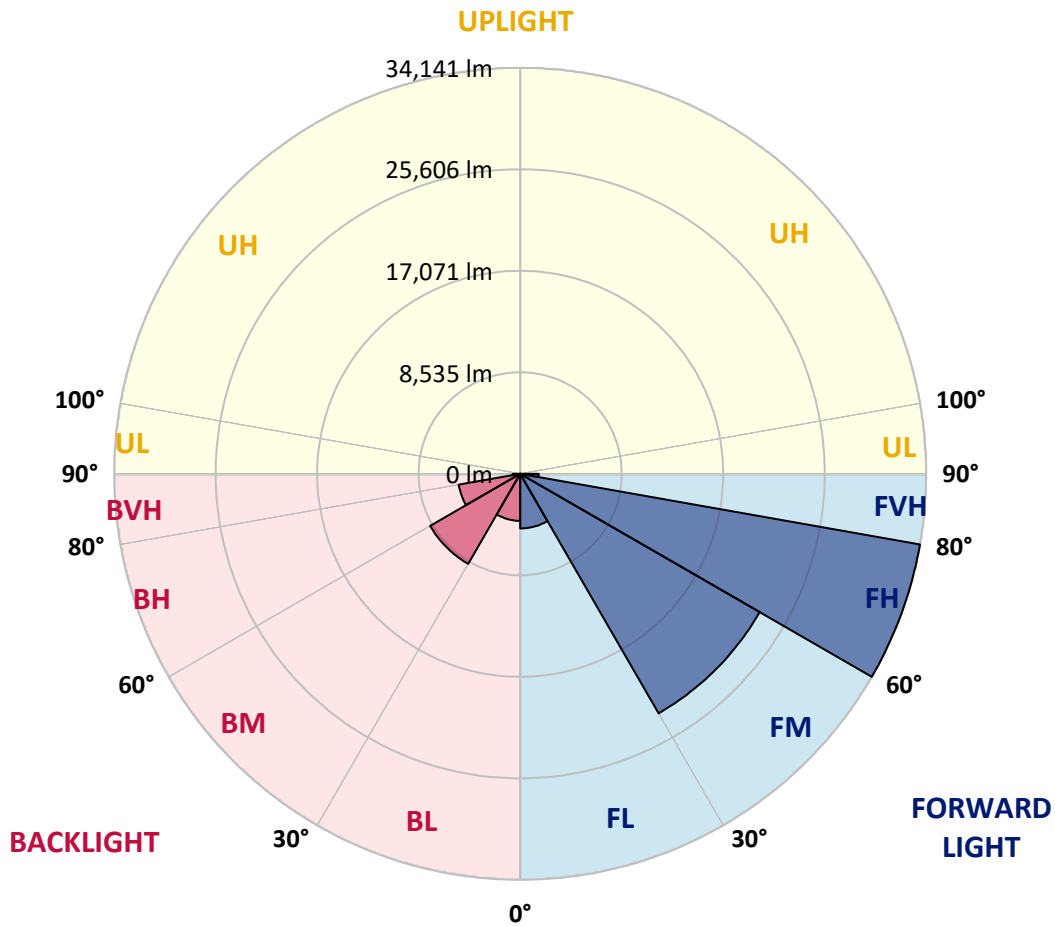
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4592.5	5.6			
FM (30°-60°)	23261.8	28.3			
FH (60°-80°)	34141.4	41.6			G5
FVH (80°-90°)	1562.9	1.9			G5
BL (0°-30°)	3952.7	4.8	B4/5000		
BM (30°-60°)	8741.7	10.6	B5		
BH (60°-80°)	5255.4	6.4	B5		G5
BVH (80°-90°)	615.6	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7
2.5°	8609.2	8665.4	8613.5	8565.9	8544.3	8488.0	8483.7	8449.1	8427.5	8366.9
5°	9210.5	9284.1	9197.5	9102.4	9015.8	8877.4	8860.1	8760.6	8648.1	8518.3
7.5°	9889.7	9954.6	9855.1	9712.4	9560.9	9331.7	9327.3	9145.6	8968.3	8747.6
10°	10482.4	10569.0	10434.8	10240.2	10049.8	9790.2	9760.0	9552.3	9327.3	9041.8
12.5°	11005.9	11066.5	10936.7	10698.7	10478.1	10218.5	10179.6	9950.3	9699.4	9374.9
15°	11421.2	11499.1	11326.0	11070.8	10837.2	10581.9	10547.3	10339.7	10088.7	9747.0
17.5°	11693.8	11758.7	11581.3	11295.8	11070.8	10858.8	10832.9	10659.8	10439.2	10093.1
20°	11797.6	11866.8	11680.8	11390.9	11183.3	11018.9	11005.9	10880.4	10729.0	10413.2
22.5°	11901.4	11966.3	11724.1	11421.2	11239.5	11135.7	11131.4	11049.2	10988.6	10729.0
25°	12321.1	12338.4	12013.9	11577.0	11317.4	11226.5	11222.2	11217.9	11243.8	11040.5
27.5°	12684.5	12680.2	12403.3	11992.3	11589.9	11399.6	11395.3	11438.5	11520.7	11352.0
30°	13216.6	13169.0	12840.2	12411.9	12044.2	11750.0	11724.1	11685.1	11750.0	11615.9
32.5°	14345.7	14194.3	13662.2	12900.8	12420.6	12195.6	12161.0	11918.7	11944.7	11862.5
35°	15963.8	15764.7	15055.2	13826.6	12887.8	12567.7	12550.4	12243.2	12191.3	12117.7
37.5°	17888.9	17642.3	16816.0	15167.7	13692.5	13000.3	12974.3	12697.5	12485.5	12407.6
40°	19822.7	19511.3	18827.7	16803.0	14877.9	13722.8	13640.6	13220.9	12978.7	12848.9
42.5°	21700.3	21440.8	20856.7	18637.4	16340.1	14778.4	14596.7	13878.5	13696.8	13575.7
45°	23361.6	23128.0	22699.7	20597.1	18053.3	16214.7	16037.3	14864.9	14808.7	14808.7
47.5°	24711.4	24659.5	24205.2	22595.9	20073.7	17850.0	17542.8	16236.3	16387.7	16621.3
50°	26208.2	26065.5	25580.9	24564.3	22448.8	19723.2	19472.3	17919.2	18485.9	19126.2
52.5°	27584.0	27661.9	27121.1	26614.9	25131.0	21812.8	21371.5	19904.9	21129.3	22189.2
55°	28998.7	29003.0	28851.6	28782.3	27943.1	24123.0	23638.5	22293.0	24239.8	25555.0
57.5°	30326.8	30335.5	30560.4	31170.4	31205.0	26788.0	26238.5	25226.2	27696.5	29037.6
60°	31512.2	31572.8	32187.1	33614.7	34073.3	29842.3	29323.1	28691.5	31269.9	32619.7
62.5°	31910.2	32130.8	33497.9	35526.9	36907.0	33588.8	33078.3	32701.9	35025.1	36279.7
65°	31235.3	31741.5	34384.8	37106.0	39822.9	38040.5	37534.3	37123.3	38927.3	40108.4
67.5°	29578.4	30231.6	34332.9	38762.9	43361.7	43396.3	42924.8	41960.0	43110.8	43565.0
70°	25213.2	26190.9	31308.9	39381.6	47424.0	50720.6	50266.4	47783.1	47285.6	45087.9
72.5°	16245.0	17560.1	23054.4	34289.6	48328.2	57612.3	57586.3	53039.5	48605.1	42128.7
75°	5926.9	6731.6	10711.7	21522.9	40567.0	57261.9	57430.6	52139.6	44369.7	32541.8
77.5°	2158.8	2362.1	3495.6	8271.7	24949.3	45944.5	46294.9	41683.1	31581.4	16331.5
80°	1133.5	1246.0	1791.1	3210.1	10690.1	27285.5	27834.9	24771.9	14843.3	4918.9
82.5°	627.3	679.2	1003.7	1743.5	4815.1	11667.8	11996.6	9785.9	5221.7	2085.2
85°	337.4	359.1	471.6	951.8	2353.5	4045.0	4135.9	2924.5	2080.9	1224.3
87.5°	99.5	121.1	155.7	302.8	921.5	908.5	930.1	579.7	822.0	618.6
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°
8284.7	0°	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7	8284.7
8349.6	2.5°	8323.6	8310.7	8263.1	8241.5	8215.5	8211.2	8232.8	8237.1	8241.5	8245.8
8444.8	5°	8401.5	8358.3	8315.0	8289.0	8297.7	8302.0	8345.3	8375.6	8397.2	8414.5
8622.2	7.5°	8552.9	8518.3	8444.8	8440.5	8453.4	8492.4	8548.6	8617.8	8656.8	8687.1
8851.4	10°	8777.9	8713.0	8626.5	8639.5	8665.4	8721.7	8838.5	8894.7	8959.6	9015.8
9132.7	12.5°	9007.2	8951.0	8851.4	8860.1	8903.4	9002.9	9115.3	9184.6	9227.8	9271.1
9435.5	15°	9305.7	9206.2	9098.0	9098.0	9175.9	9284.1	9336.0	9392.2	9418.2	9465.8
9760.0	17.5°	9612.9	9483.1	9340.3	9331.7	9426.8	9478.8	9509.0	9517.7	9526.3	9578.3
10075.8	20°	9920.0	9777.3	9573.9	9556.6	9578.3	9569.6	9565.3	9556.6	9569.6	9634.5
10400.2	22.5°	10222.9	10058.5	9777.3	9699.4	9638.8	9556.6	9552.3	9548.0	9556.6	9621.5
10750.7	25°	10577.6	10378.6	10002.2	9768.6	9565.3	9452.8	9465.8	9470.1	9478.8	9530.7
11114.1	27.5°	10962.6	10742.0	10209.9	9747.0	9379.2	9301.4	9279.7	9292.7	9323.0	9405.2
11477.5	30°	11347.7	11088.1	10400.2	9660.5	9145.6	9037.5	8968.3	8998.5	9093.7	9175.9
11793.3	32.5°	11698.1	11438.5	10551.7	9470.1	8847.1	8678.4	8587.5	8626.5	8721.7	8751.9
12143.7	35°	12109.1	11814.9	10616.5	9167.3	8522.7	8263.1	8141.9	8085.7	8133.3	8103.0
12554.7	37.5°	12567.7	12260.5	10607.9	8769.2	8141.9	7843.4	7674.7	7462.7	7363.2	7259.4
13160.4	40°	13246.9	12805.6	10504.1	8289.0	7670.4	7397.8	7095.0	6735.9	6511.0	6307.6
14138.1	42.5°	14172.7	13562.7	10313.7	7761.2	7138.3	6883.0	6472.0	6052.4	5697.6	5360.2
15622.0	45°	15552.8	14553.4	10075.8	7198.8	6562.9	6312.0	5866.4	5394.8	4992.5	4559.8
17728.9	47.5°	17542.8	15885.9	9850.8	6558.6	5957.2	5727.9	5325.6	4888.6	4412.7	3993.1
20774.5	50°	20277.0	17798.1	9643.1	5935.6	5360.2	5187.1	4867.0	4421.4	3941.2	3603.7
24343.6	52.5°	23755.3	20398.1	9556.6	5334.2	4802.1	4737.2	4482.0	4066.6	3612.4	3326.9
28505.5	55°	27748.4	23508.7	9556.6	4758.8	4313.2	4334.9	4157.5	3772.5	3378.8	3123.5
32797.1	57.5°	31823.7	26658.2	9383.6	4226.7	3897.9	3988.8	3876.3	3538.8	3184.1	2920.2
37309.3	60°	35578.8	29297.2	8682.7	3742.2	3530.2	3673.0	3599.4	3309.6	2876.9	2656.3
41081.8	62.5°	38464.4	30785.4	7332.9	3357.1	3227.4	3391.8	3352.8	3006.7	2820.7	2729.8
44179.4	65°	39909.4	30543.1	5606.8	3015.4	2972.1	3227.4	3145.2	3132.2	2985.1	2881.3
45187.4	67.5°	39022.5	28457.9	4066.6	2764.5	2825.0	3075.9	3391.8	3443.7	3171.1	2967.8
42349.4	70°	35133.2	24685.4	3028.4	2526.5	2639.0	3080.3	3867.6	3603.7	3110.6	2872.6
33965.2	72.5°	26727.4	18408.1	2349.1	2275.6	2396.7	3101.9	4079.6	3530.2	2937.5	3175.4
21159.5	75°	15284.5	10106.1	1886.2	1968.4	2093.9	2898.6	3971.5	3339.8	2803.4	2915.9
8384.2	77.5°	5827.4	3884.9	1557.4	1665.6	1682.9	2530.8	3798.4	3326.9	2669.3	2604.4
2513.5	80°	2020.3	1518.5	1289.2	1323.8	1302.2	2249.6	3642.7	2894.2	2184.7	1955.5
1038.3	82.5°	826.3	757.1	1021.0	977.7	925.8	1747.8	2941.8	2366.4	1786.7	1579.1
501.8	85°	359.1	480.2	674.9	592.7	536.5	1211.3	2357.8	2003.0	1509.9	1302.2
164.4	87.5°	73.5	181.7	285.5	268.2	276.9	809.0	1674.2	1423.3	1068.6	800.4
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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180°  
8284.7  
8263.1  
8423.2  
8695.7  
9002.9  
9288.4  
9483.1  
9595.6  
9660.5  
9664.8  
9599.9  
9487.4  
9266.8  
8860.1  
8198.2  
7324.3  
6320.6  
5329.9  
4507.9  
3945.5  
3582.1  
3305.2  
3097.6  
2876.9  
2621.7  
2699.6  
2846.7  
2933.2  
2833.7  
3149.5  
2915.9  
2375.1  
1890.6  
1561.8  
1297.9  
627.3  
0.0

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