

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: P952844

Luminaire Tested: **GALN-SB6C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

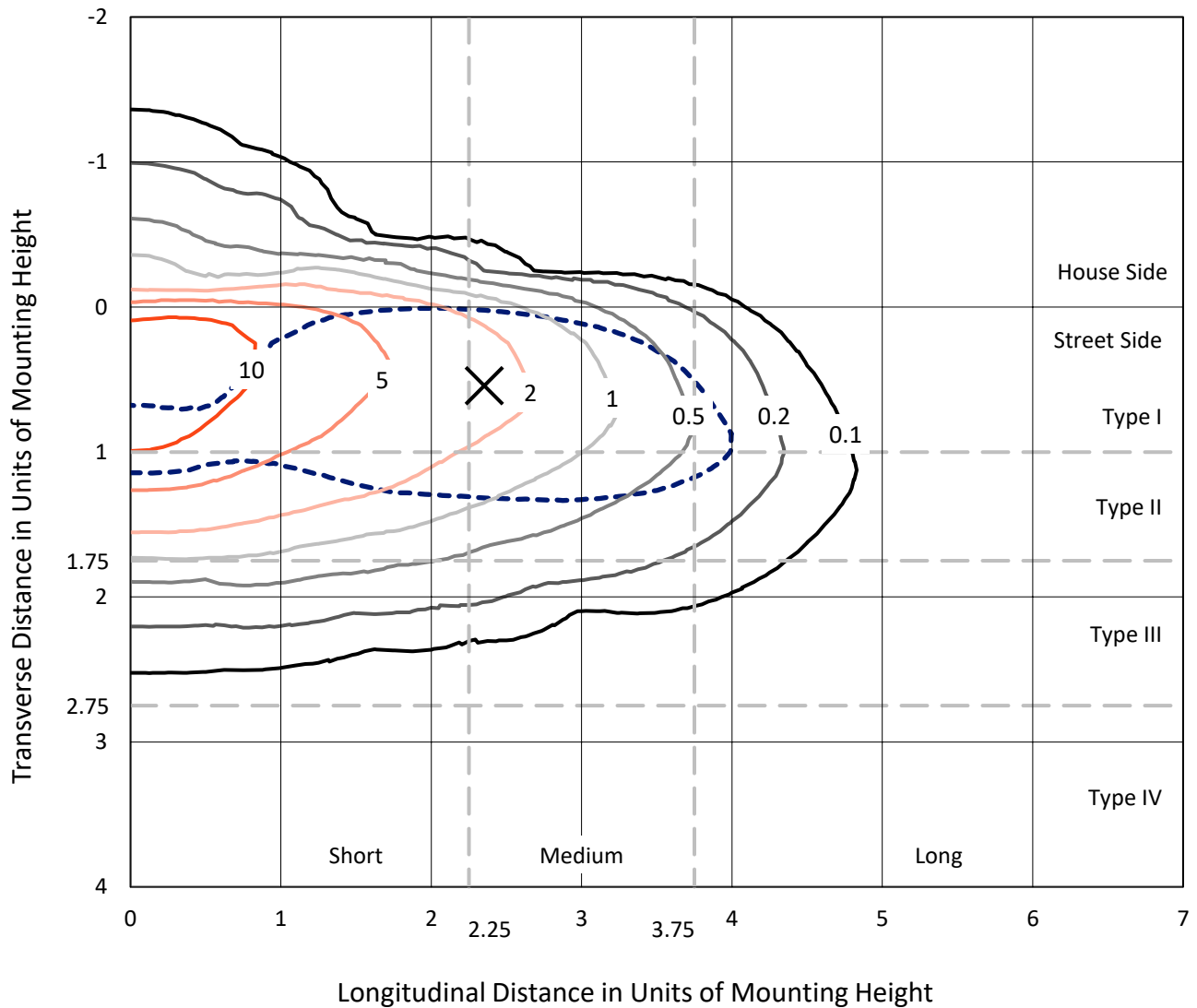
Lumens per Lamp: N/A  
Luminaire Lumens: 33436 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

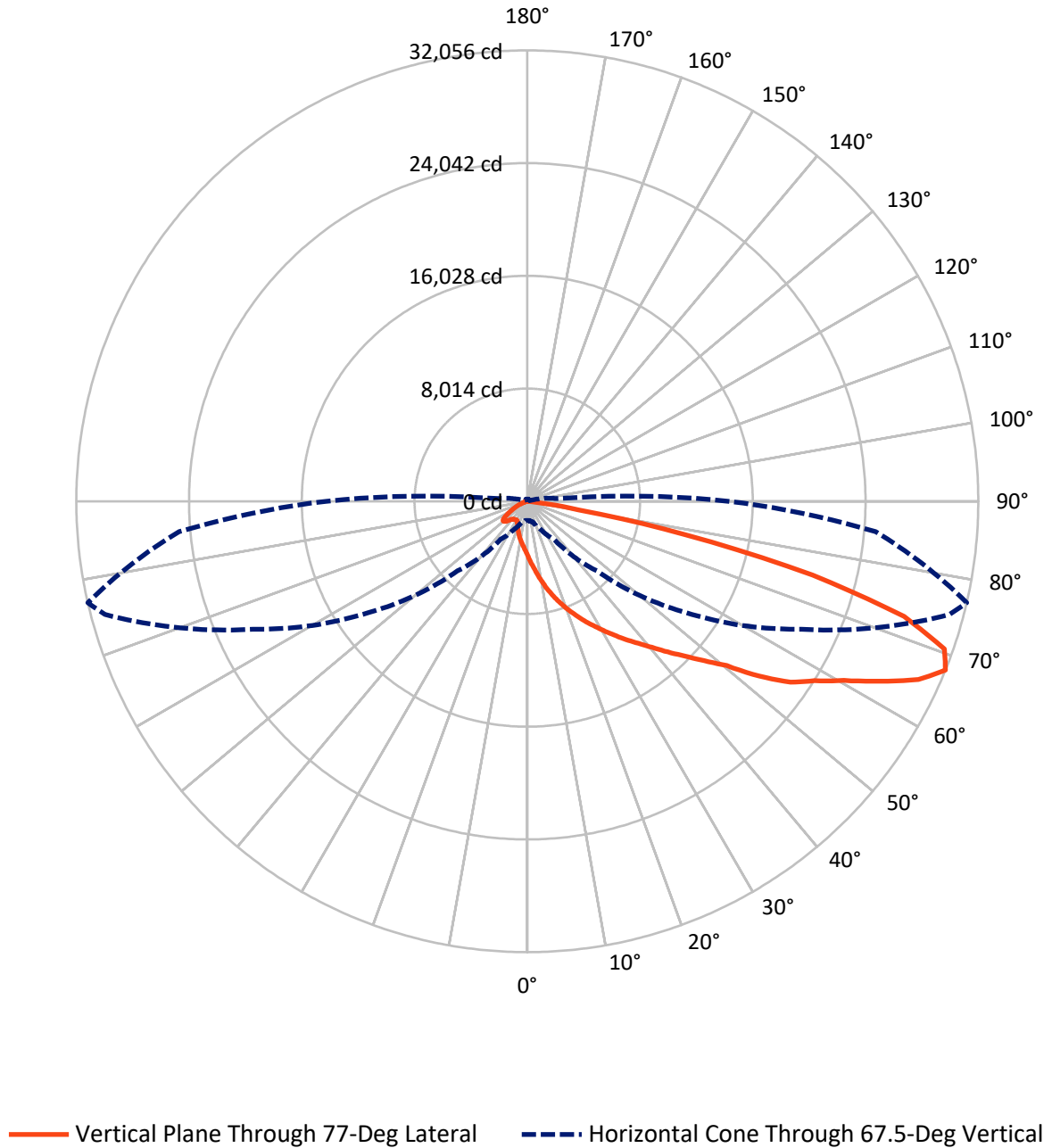
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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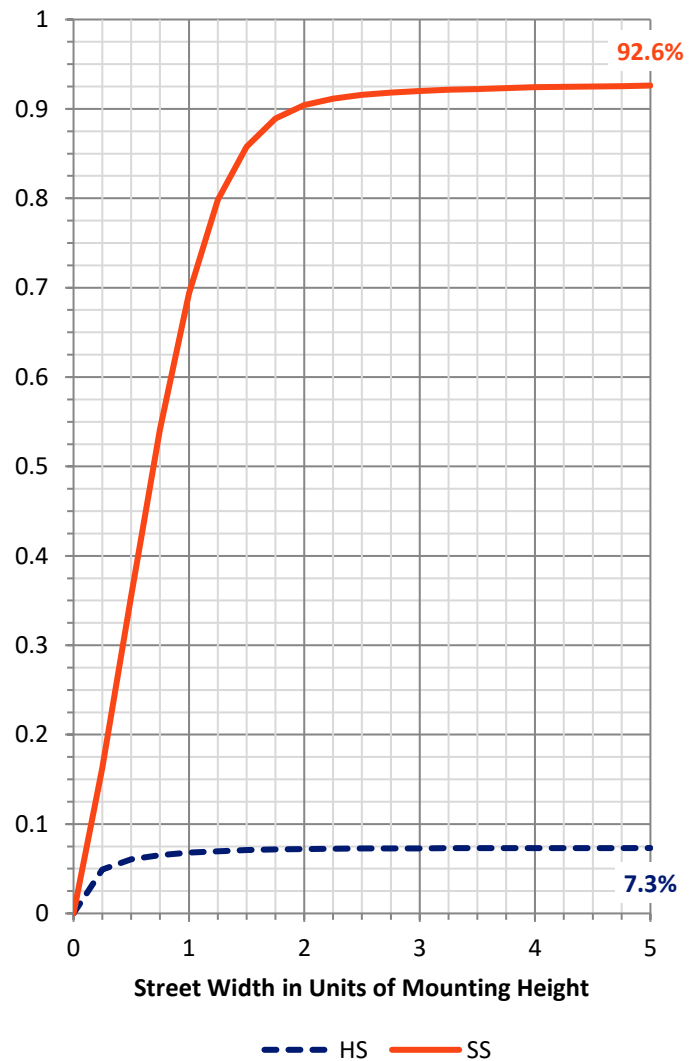
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2459.9	0.0	2459.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	30976.1	0.0	30976.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	33436.0	0.0	33436.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.5	1.2
10°-20°	1378.1	4.1
20°-30°	2659.4	8.0
30°-40°	4616.8	13.8
40°-50°	6703.4	20.0
50°-60°	7698.0	23.0
60°-70°	6683.3	20.0
70°-80°	3147.9	9.4
80°-90°	155.7	0.5
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°	33436.0	100.0
0°-180°	33436.0	100.0

**Coefficient of Utilization**



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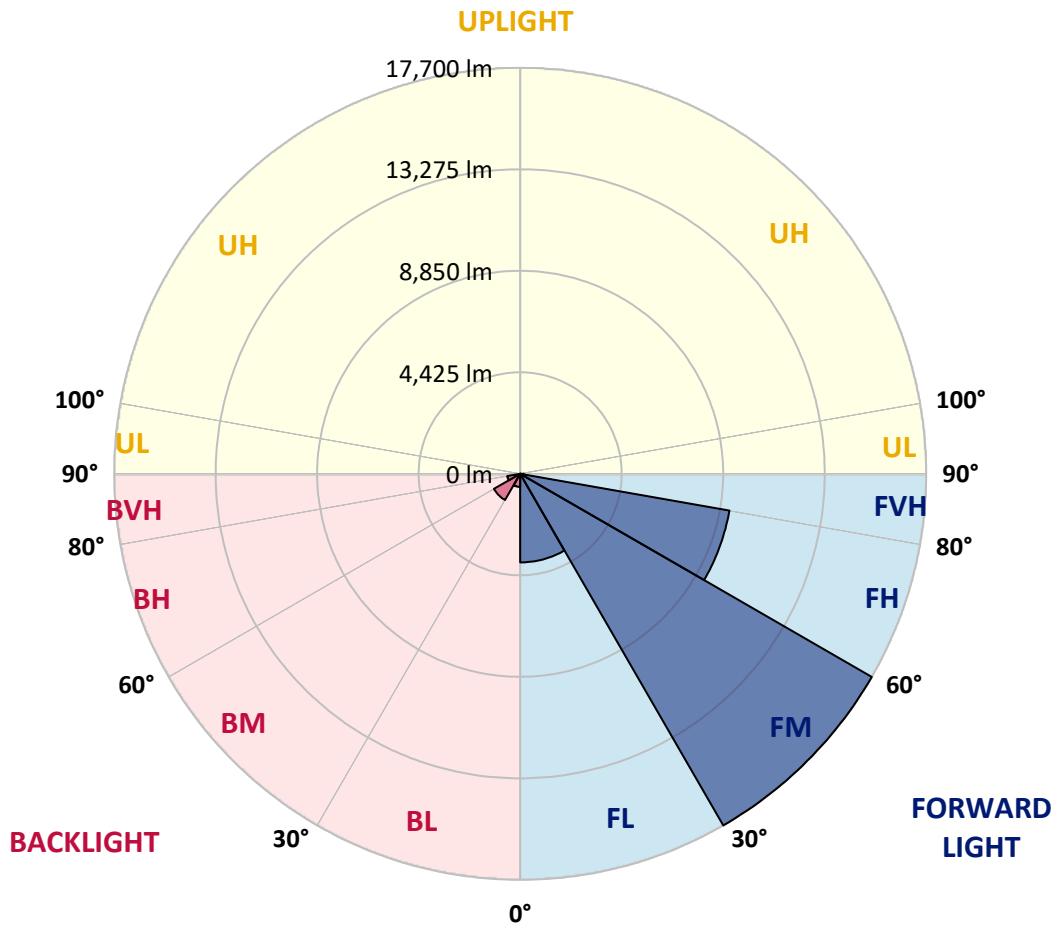
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3861.5	11.5			
FM (30°-60°)	17700.1	52.9			
FH (60°-80°)	9261.7	27.7			G4/12000
FVH (80°-90°)	152.8	0.5			G2/225
BL (0°-30°)	569.5	1.7	B2/1000		
BM (30°-60°)	1318.0	3.9	B2/2500		
BH (60°-80°)	569.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7
2.5°	5338.1	5371.4	5323.6	5232.2	5095.2	5005.9	4787.9	4582.4	4354.0	4281.3
5°	6507.1	6536.1	6482.2	6382.5	6199.8	6025.4	5738.9	5309.1	4862.7	4719.4
7.5°	7372.9	7389.5	7368.7	7277.4	7103.0	6905.7	6586.0	6077.3	5415.0	5257.2
10°	7995.8	8049.8	8043.5	8008.2	7892.0	7732.1	7391.6	6812.3	6033.7	5830.2
12.5°	8409.0	8469.2	8504.5	8583.4	8577.1	8475.4	8176.4	7563.9	6650.3	6411.6
15°	8529.4	8593.7	8728.7	8911.4	9073.4	9125.3	8915.6	8301.0	7329.3	7024.1
17.5°	8460.9	8560.5	8722.5	9011.1	9366.1	9600.7	9577.9	9013.2	7945.9	7597.1
20°	8612.4	8707.9	8834.6	9077.5	9490.7	9916.3	10086.6	9694.2	8558.4	8193.0
22.5°	9451.3	9434.6	9447.1	9486.5	9733.6	10155.1	10506.0	10312.9	9164.7	8791.0
25°	10780.1	10705.3	10578.7	10364.8	10302.5	10506.0	10871.4	10861.0	9804.2	9403.5
27.5°	12304.1	12291.6	11994.7	11479.8	11189.1	11110.2	11284.6	11394.7	10437.5	10009.8
30°	13763.7	13796.9	13396.2	12823.1	12289.5	11980.2	11822.4	11901.3	11081.1	10663.8
32.5°	15034.4	15069.7	14633.7	13963.0	13302.8	12929.0	12596.8	12401.7	11782.9	11328.2
35°	16107.8	16143.1	15642.7	14901.5	14197.6	13859.2	13483.4	12949.8	12488.9	12065.3
37.5°	17067.1	17056.7	16386.0	15638.6	14947.2	14679.3	14482.1	13624.6	13215.6	12806.5
40°	17633.9	17677.5	17104.4	16280.2	15609.5	15414.3	15401.9	14461.3	14054.4	13657.8
42.5°	17800.0	17876.8	17461.6	16784.7	16176.3	15964.6	16290.5	15366.6	15030.2	14644.0
45°	17501.0	17575.8	17386.8	16917.6	16562.5	16425.5	17054.6	16305.1	16072.5	15690.5
47.5°	16629.0	16722.4	16768.1	16668.4	16664.3	16803.4	17739.8	17293.4	17310.0	16919.7
50°	14941.0	15098.7	15518.2	15871.1	16417.2	17102.4	18406.3	18364.7	18705.3	18368.9
52.5°	11872.2	12096.4	13541.5	14507.0	15734.1	17046.3	19139.2	20083.9	21153.2	20661.1
55°	9540.5	9540.5	10715.7	12522.1	14401.1	16676.7	19458.9	21201.0	22820.5	22704.2
57.5°	7777.8	7871.2	8620.7	10217.4	12472.2	15796.4	19656.2	21902.7	24163.8	24078.7
60°	4800.4	5001.8	6417.8	7993.7	10277.6	14228.8	19531.6	22612.8	25793.7	25862.2
62.5°	2703.3	2778.1	3409.3	5751.3	7991.6	12121.4	18578.6	23009.4	27878.3	28169.0
65°	1866.6	1904.0	2146.9	3579.5	5539.5	9650.6	16716.2	22762.3	29967.0	30554.6
67.5°	1355.8	1374.5	1526.1	2186.3	3286.8	6997.1	13796.9	21516.5	31073.7	32055.8
70°	1042.3	1054.8	1164.8	1436.8	1941.3	4318.7	10020.2	19039.5	30272.2	31445.3
72.5°	847.1	859.6	944.7	1063.1	1287.3	2553.8	6073.1	15462.1	26734.3	28000.8
75°	714.2	730.9	807.7	884.5	1009.1	1640.3	2848.7	10767.6	20104.7	20935.2
77.5°	396.6	365.4	656.1	732.9	851.3	1038.1	1333.0	6336.8	11259.7	11490.2
80°	247.1	255.4	521.1	589.7	654.0	523.2	610.4	2439.6	3903.4	3708.2
82.5°	14.5	33.2	400.7	425.6	448.5	224.2	230.5	828.4	940.6	863.7
85°	0.0	0.0	182.7	147.4	155.7	64.4	66.4	193.1	126.7	137.0
87.5°	0.0	0.0	0.0	4.2	0.0	6.2	12.5	16.6	6.2	8.3
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°
3855.7	0°	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7	3855.7
4052.9	2.5°	3907.6	3762.2	3467.4	3178.8	2944.2	2726.2	2570.4	2423.0	2348.3	2344.1
4314.5	5°	4025.9	3720.7	3131.0	2609.9	2190.5	1854.1	1636.1	1480.4	1401.5	1374.5
4636.3	7.5°	4192.0	3733.2	2836.2	2111.6	1617.4	1328.8	1204.2	1154.4	1137.8	1119.1
4999.7	10°	4401.7	3762.2	2572.5	1700.5	1274.8	1129.5	1079.7	1058.9	1046.4	1034.0
5408.7	12.5°	4636.3	3789.2	2310.9	1411.9	1121.2	1046.4	1011.2	986.2	969.6	955.1
5828.1	15°	4864.7	3805.8	2038.9	1210.5	1042.3	982.1	944.7	917.7	894.9	878.3
6239.2	17.5°	5091.1	3828.7	1783.5	1090.0	977.9	917.7	880.3	847.1	828.4	809.8
6671.1	20°	5342.3	3824.5	1542.7	1004.9	913.6	853.4	813.9	782.8	764.1	743.3
7127.9	22.5°	5574.8	3803.8	1330.9	932.3	847.1	789.0	745.4	714.2	695.6	678.9
7595.1	25°	5842.7	3787.1	1154.4	865.8	784.8	726.7	678.9	649.9	629.1	614.6
8064.3	27.5°	6100.1	3762.2	1025.7	805.6	724.6	668.6	622.9	589.7	571.0	560.6
8548.1	30°	6353.4	3756.0	977.9	747.5	670.6	614.6	568.9	537.8	523.2	519.1
9079.6	32.5°	6658.6	3772.6	998.7	726.7	620.8	564.7	521.1	498.3	483.8	483.8
9671.3	35°	6984.6	3768.5	1029.8	745.4	587.6	514.9	481.7	467.2	452.6	452.6
10327.4	37.5°	7393.7	3774.7	1054.8	776.5	575.1	473.4	454.7	436.0	427.7	427.7
11045.8	40°	8004.1	3980.2	1042.3	803.5	571.0	444.3	407.0	400.7	394.5	394.5
11857.7	42.5°	8751.5	4426.6	1058.9	805.6	568.9	423.6	373.7	386.2	371.7	369.6
12773.3	45°	9569.6	4914.6	1164.8	762.0	566.8	413.2	357.1	371.7	348.8	348.8
13834.3	47.5°	10381.4	5398.3	1272.8	699.7	560.6	411.1	342.6	334.3	328.1	330.1
15217.1	50°	11500.5	5792.8	1314.3	614.6	546.1	407.0	315.6	317.7	313.5	317.7
17166.7	52.5°	12719.3	5875.9	1264.5	519.1	504.5	394.5	296.9	305.2	303.1	307.3
18539.2	55°	13479.2	5786.6	1044.4	431.9	440.2	344.7	278.2	294.8	294.8	294.8
19880.4	57.5°	14264.1	5406.6	741.2	350.9	365.4	282.4	261.6	284.5	282.4	280.3
21495.8	60°	14828.8	4792.1	487.9	288.6	290.7	232.5	242.9	267.8	265.8	255.4
23161.0	62.5°	15250.3	4113.1	313.5	245.0	222.2	209.7	222.2	242.9	234.6	211.8
24572.8	65°	15202.6	3172.6	240.8	209.7	182.7	182.7	193.1	211.8	186.9	149.5
24842.8	67.5°	14316.0	2146.9	199.3	176.5	153.6	151.6	159.9	176.5	159.9	126.7
23460.0	70°	12731.8	1403.6	159.9	137.0	122.5	112.1	128.7	151.6	135.0	101.7
19971.8	72.5°	10333.7	855.4	120.4	99.7	89.3	72.7	101.7	124.6	108.0	74.7
13888.3	75°	6685.6	436.0	83.1	64.4	47.8	43.6	74.7	93.4	74.7	45.7
6162.4	77.5°	2558.0	182.7	45.7	29.1	24.9	20.8	41.5	56.1	31.1	10.4
1193.9	80°	492.1	76.8	22.8	14.5	12.5	8.3	6.2	4.2	0.0	0.0
211.8	82.5°	85.1	24.9	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
41.5	85°	29.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.5	87.5°	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3855.7
2340.0
1370.3
1115.0
1029.8
950.9
876.2
807.7
741.2
676.9
612.5
560.6
517.0
483.8
452.6
427.7
394.5
367.5
348.8
330.1
317.7
307.3
294.8
280.3
255.4
207.6
145.3
122.5
97.6
70.6
39.4
8.3
0.0
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