

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: P957047

Luminaire Tested: **GALN-SB9C-735-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-735-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

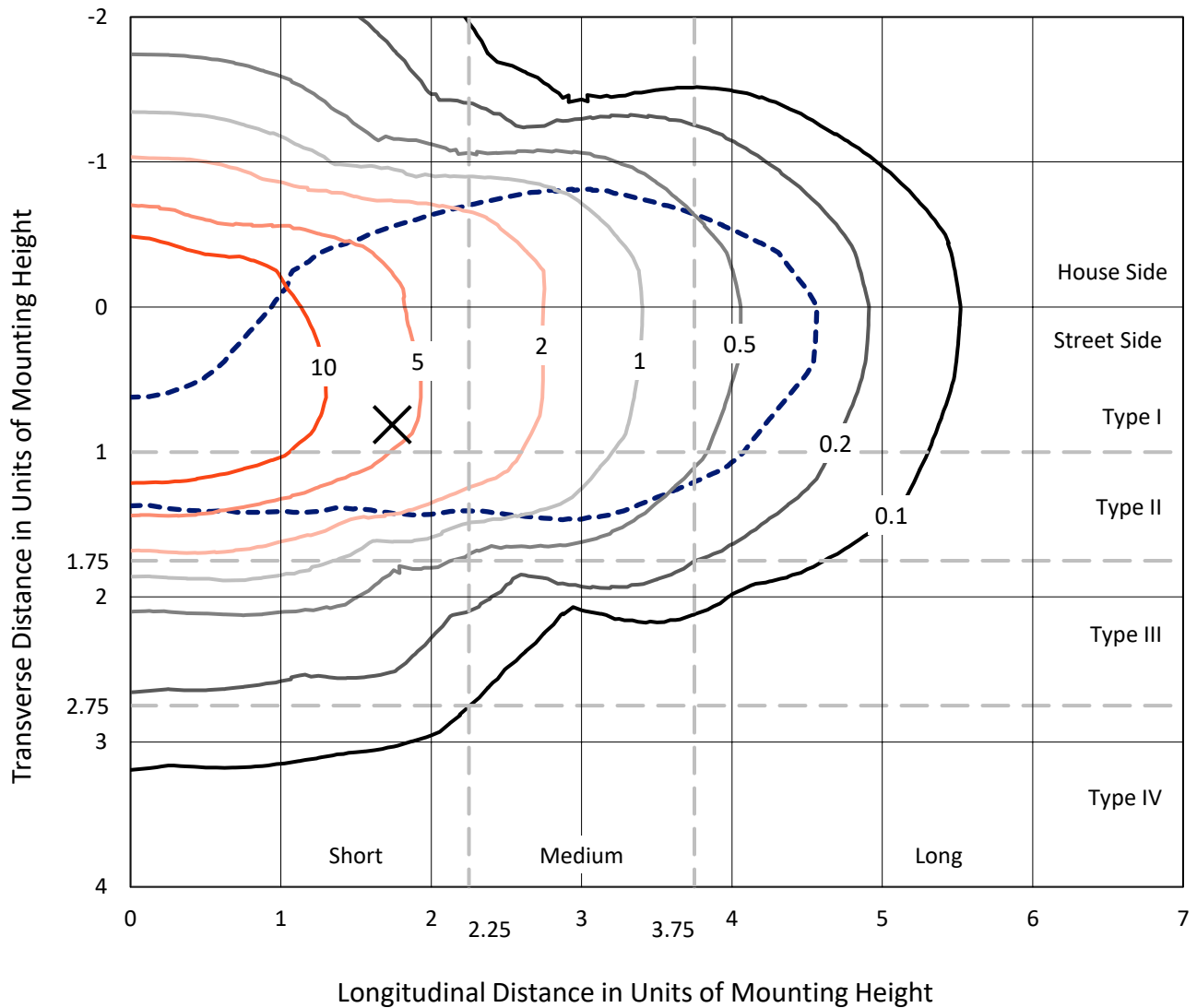
Lumens per Lamp: N/A  
Luminaire Lumens: 69128 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

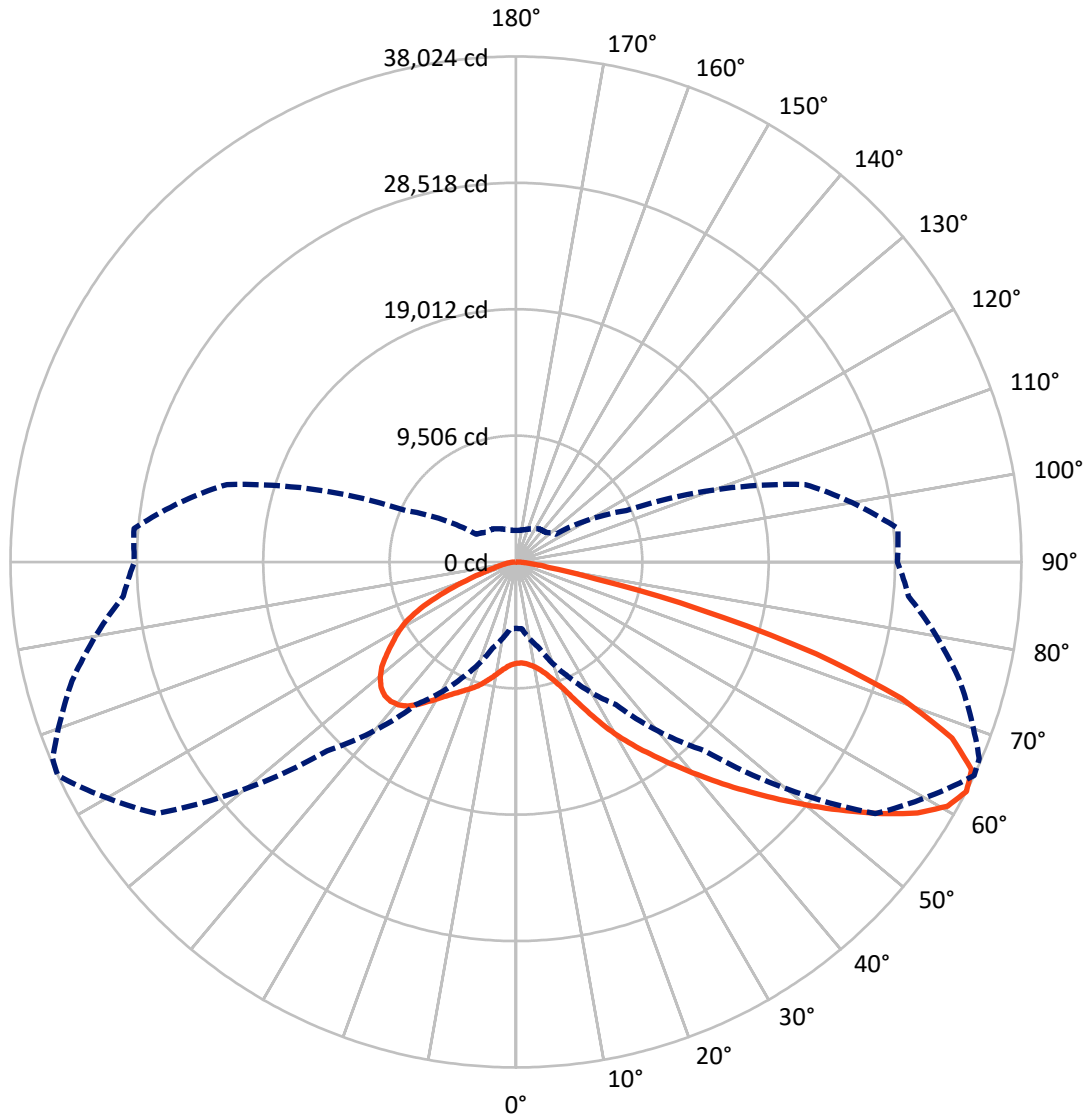
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21813.8	0.0	21813.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	47314.2	0.0	47314.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	69128.0	0.0	69128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.5	1.1
10°-20°	2575.4	3.7
20°-30°	5221.9	7.6
30°-40°	9036.5	13.1
40°-50°	13675.0	19.8
50°-60°	16033.0	23.2
60°-70°	13441.8	19.4
70°-80°	7421.0	10.7
80°-90°	963.9	1.4
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°	69128.0	100.0
0°-180°	69128.0	100.0

**Coefficient of Utilization**



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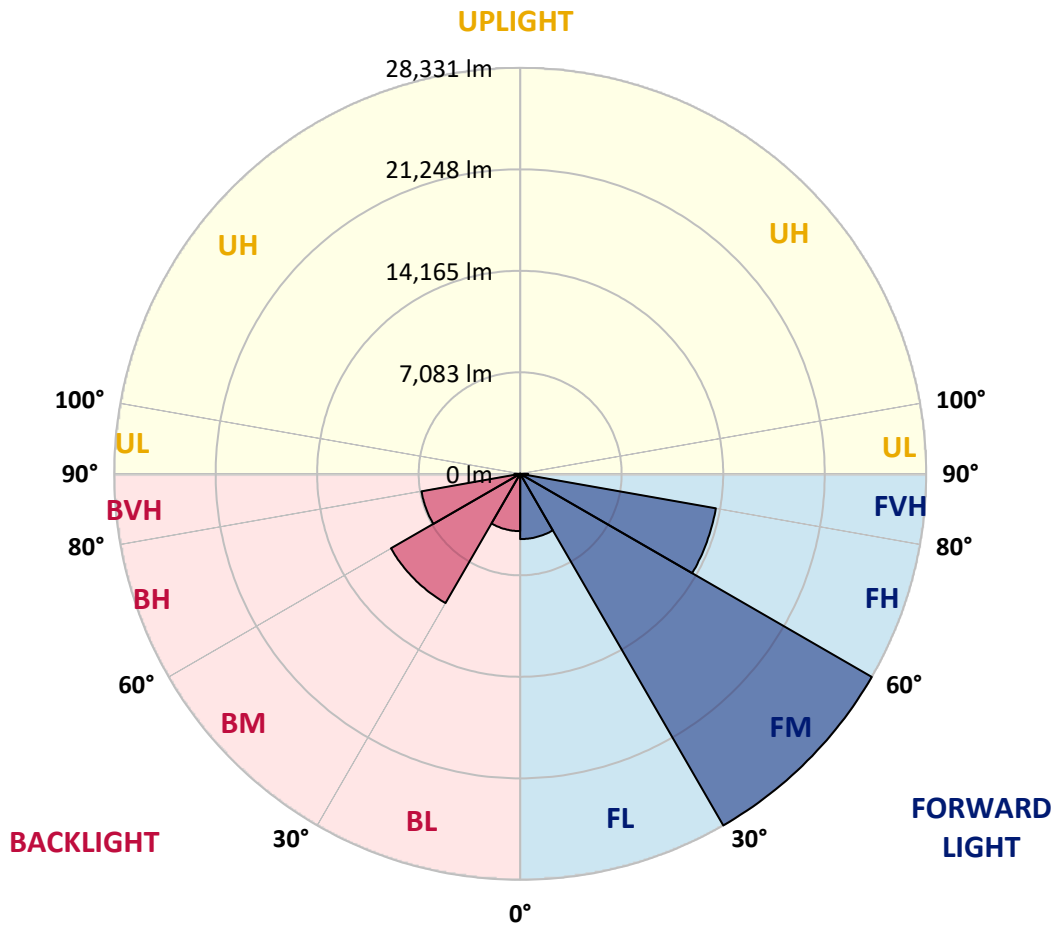
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4556.5	6.6			
FM (30°-60°)	28330.9	41.0			
FH (60°-80°)	13865.0	20.1			G5
FVH (80°-90°)	561.8	0.8			G4/750
BL (0°-30°)	4000.4	5.8	B4/5000		
BM (30°-60°)	10413.6	15.1	B5		
BH (60°-80°)	6997.7	10.1	B5		G5
BVH (80°-90°)	402.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6
2.5°	7567.4	7545.9	7563.8	7563.8	7571.0	7567.4	7592.5	7599.7	7610.4	7632.0
5°	7492.1	7488.5	7520.8	7549.5	7578.2	7603.3	7635.5	7682.2	7689.3	7714.4
7.5°	7467.0	7445.5	7495.7	7531.5	7599.7	7660.6	7746.7	7825.6	7857.9	7868.7
10°	7660.6	7624.8	7671.4	7692.9	7750.3	7811.3	7911.7	8037.2	8073.1	8116.1
12.5°	7990.6	7951.1	8019.3	8051.6	8105.4	8159.2	8227.3	8349.2	8367.2	8446.1
15°	8442.5	8395.9	8438.9	8478.4	8568.0	8618.2	8686.4	8804.7	8804.7	8865.7
17.5°	9055.8	8994.8	9027.1	9041.4	9098.8	9174.1	9288.9	9392.9	9446.7	9425.2
20°	9970.3	9895.0	9895.0	9823.3	9801.7	9862.7	10013.4	10156.8	10214.2	10103.0
22.5°	11343.9	11236.3	11175.4	10931.5	10834.6	10841.8	10992.4	11168.2	11214.8	11017.6
25°	13090.5	12922.0	12839.5	12480.8	12262.1	12072.0	12190.3	12416.3	12480.8	12236.9
27.5°	14837.1	14847.9	14769.0	14338.6	13976.4	13628.5	13567.5	13804.2	13872.4	13596.2
30°	17286.7	17032.0	16881.4	16364.9	15848.5	15360.7	15109.7	15206.5	15224.5	14894.5
32.5°	19399.1	19334.5	19011.7	18559.8	17896.4	17132.4	16712.8	16558.6	16529.9	16060.1
35°	21805.6	21769.7	21429.0	20891.0	20173.7	19112.2	18355.4	17914.3	17878.4	17218.5
37.5°	24251.5	24251.5	23918.0	23329.8	22587.4	21260.4	20109.2	19409.8	19295.1	18434.3
40°	26202.6	26084.2	26145.2	25897.7	25047.7	23638.2	22056.6	21041.7	20887.4	19854.6
42.5°	27310.8	27271.3	27637.1	27913.3	27565.4	26439.3	24201.3	22809.8	22594.6	21418.2
45°	27558.2	27515.2	28167.9	29179.3	29667.1	29204.4	26532.5	24671.1	24409.3	23053.7
47.5°	26988.0	26901.9	27859.5	29455.5	31019.1	31833.3	29057.4	26690.3	26310.1	24646.0
50°	25273.7	25191.2	26640.1	28759.7	31474.6	33619.3	31797.4	28831.4	28250.4	26353.2
52.5°	21547.4	21586.8	23857.0	26769.2	30875.7	34731.1	34157.3	31087.3	30387.9	28099.8
55°	16784.6	16870.6	19660.9	22867.2	28479.9	34562.6	35767.6	33411.3	32715.5	29742.4
57.5°	12018.2	12398.3	15012.9	18186.9	23878.5	31890.7	36119.1	35620.6	34946.3	31535.6
60°	7789.8	7857.9	10547.7	13746.8	18183.3	27142.2	35405.4	37295.4	36768.2	33364.7
62.5°	4992.3	5039.0	6678.0	9615.3	13086.9	20080.5	33002.5	38023.5	37862.1	34573.3
65°	3668.9	3633.1	4486.6	6355.2	8815.5	12384.0	28336.5	37672.0	37991.2	35330.1
67.5°	3062.8	3012.6	3432.2	4400.6	6495.0	7033.0	20966.3	35387.4	36556.6	35244.0
70°	2790.3	2747.2	3001.9	3267.2	5067.6	4709.0	10569.2	30764.5	32564.9	34264.9
72.5°	2363.5	2288.2	2636.0	2901.4	3941.5	3611.5	4368.3	23631.1	25826.0	31126.7
75°	1832.7	1782.5	2080.1	2553.5	2962.4	2818.9	2761.6	14349.4	16745.1	24072.2
77.5°	1452.5	1384.4	1656.9	1990.5	2664.7	2126.8	2012.0	6179.4	8553.7	15367.9
80°	1093.9	1032.9	1258.8	1574.4	2047.9	1603.1	1301.9	2521.3	3224.2	7786.2
82.5°	778.3	724.5	878.7	1154.8	1377.2	1438.2	799.8	1413.1	1588.8	3001.9
85°	498.5	466.2	588.2	724.5	875.1	925.3	487.8	738.8	810.5	1237.3
87.5°	272.6	222.4	315.6	337.1	405.3	369.4	233.1	269.0	290.5	448.3
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°
7617.6	0°	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6
7632.0	2.5°	7646.3	7657.1	7692.9	7703.7	7728.8	7761.1	7782.6	7804.1	7804.1	7825.6
7746.7	5°	7750.3	7775.4	7850.7	7890.2	7954.7	8019.3	8058.7	8105.4	8134.1	8148.4
7929.6	7.5°	7951.1	7990.6	8098.2	8166.3	8277.5	8367.2	8428.1	8492.7	8507.0	8546.5
8184.3	10°	8223.7	8270.3	8392.3	8521.4	8654.1	8765.3	8822.7	8869.3	8887.2	8894.4
8510.6	12.5°	8535.7	8603.9	8761.7	8919.5	9059.4	9156.2	9170.5	9159.8	9109.6	9066.5
8912.3	15°	8919.5	8980.5	9156.2	9328.3	9464.6	9482.6	9392.9	9335.5	9274.5	9263.8
9360.6	17.5°	9378.5	9410.8	9572.2	9740.8	9751.5	9690.6	9557.9	9504.1	9446.7	9407.2
9945.2	20°	9912.9	9902.2	10016.9	10088.7	10013.4	9826.9	9626.0	9536.4	9479.0	9432.3
10662.5	22.5°	10551.3	10468.8	10454.5	10436.6	10235.7	9844.8	9572.2	9457.5	9367.8	9303.2
11663.1	25°	11480.2	11164.6	10945.8	10823.9	10372.0	9748.0	9400.1	9145.4	8976.9	8865.7
12886.1	27.5°	12642.2	12111.4	11559.1	11261.4	10372.0	9550.7	8984.0	8571.6	8295.4	8180.7
14069.6	30°	13750.4	13194.5	12380.4	11788.6	10346.9	9227.9	8313.4	7739.5	7416.8	7302.0
15081.0	32.5°	14697.2	14091.1	13251.9	12366.1	10285.9	8704.3	7481.3	6846.5	6534.5	6398.2
16081.6	35°	15575.9	14930.4	14127.0	13000.9	10124.5	7936.8	6566.8	6082.6	5734.7	5515.9
17100.2	37.5°	16476.1	15708.6	14955.5	13574.7	9834.0	7040.2	5863.8	5451.4	5042.5	4748.5
18183.3	40°	17455.2	16537.1	15841.3	13915.4	9357.0	6186.6	5318.7	4942.1	4508.2	4196.1
19431.4	42.5°	18599.3	17530.5	16827.6	14091.1	8704.3	5580.5	4963.6	4594.2	4185.4	3930.7
20769.1	45°	19793.6	18624.4	17727.8	14087.5	7976.3	5297.2	4848.9	4483.1	4031.2	3765.8
22142.7	47.5°	21045.3	19768.5	18506.0	13858.0	7345.0	5336.6	4784.3	4242.8	3744.2	3486.0
23530.7	50°	22300.5	21020.1	19259.2	13427.6	7076.1	5250.6	4544.0	3905.6	3317.5	3084.3
24832.5	52.5°	23545.0	22350.7	19908.3	12814.4	6803.5	4931.4	4235.6	3468.1	3141.7	2980.3
26177.5	55°	24796.7	23666.9	20614.9	11921.3	6122.1	4558.4	3719.1	3303.1	3001.9	2854.8
27493.7	57.5°	26051.9	25187.6	21285.5	11028.3	5264.9	4099.3	3435.8	3102.3	2862.0	2736.5
28594.7	60°	27357.4	26927.0	21977.7	10207.0	4418.5	3511.1	3227.8	2940.9	2697.0	2557.1
29652.7	62.5°	28702.3	28842.2	22519.3	9149.0	3640.2	3152.5	3041.3	2747.2	2510.5	2377.8
30527.8	65°	30058.0	30689.2	22874.3	7682.2	2951.6	2811.8	2840.5	2535.6	2295.3	2180.6
31169.8	67.5°	31080.1	32019.8	22773.9	5813.6	2420.8	2489.0	2589.4	2313.3	2087.3	1997.6
31065.8	70°	31194.9	31862.0	21784.1	3981.0	2026.3	2173.4	2309.7	2094.5	1861.4	1796.8
29602.5	72.5°	29667.1	29710.1	19026.1	2600.2	1714.3	1908.0	2015.6	1872.1	1646.2	1581.6
25897.7	75°	25661.0	24570.7	13969.2	1714.3	1434.6	1639.0	1739.4	1639.0	1420.2	1434.6
19377.6	77.5°	19442.1	17401.4	8481.9	1219.4	1197.9	1377.2	1513.5	1441.8	1255.3	1409.5
9744.4	80°	10016.9	9414.4	3783.7	911.0	946.8	1101.0	1244.5	1151.2	993.4	946.8
2177.0	82.5°	2295.3	2668.3	1492.0	652.7	685.0	792.6	950.4	864.3	713.7	602.5
907.4	85°	803.4	878.7	659.9	408.9	401.7	494.9	645.6	577.4	484.2	387.3
383.7	87.5°	254.6	333.5	247.5	165.0	172.1	222.4	297.7	272.6	225.9	147.0
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>
7617.6
7825.6
8155.6
8532.1
8876.4
9066.5
9263.8
9410.8
9435.9
9324.8
8908.7
8238.1
7370.1
6466.4
5587.7
4827.4
4257.1
3981.0
3808.8
3521.9
3098.7
2980.3
2840.5
2714.9
2546.4
2374.2
2177.0
2001.2
1800.4
1578.0
1384.4
1240.9
864.3
595.3
408.9
154.2
0.0

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