

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: P944187

Luminaire Tested: **GALN-SB9A-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

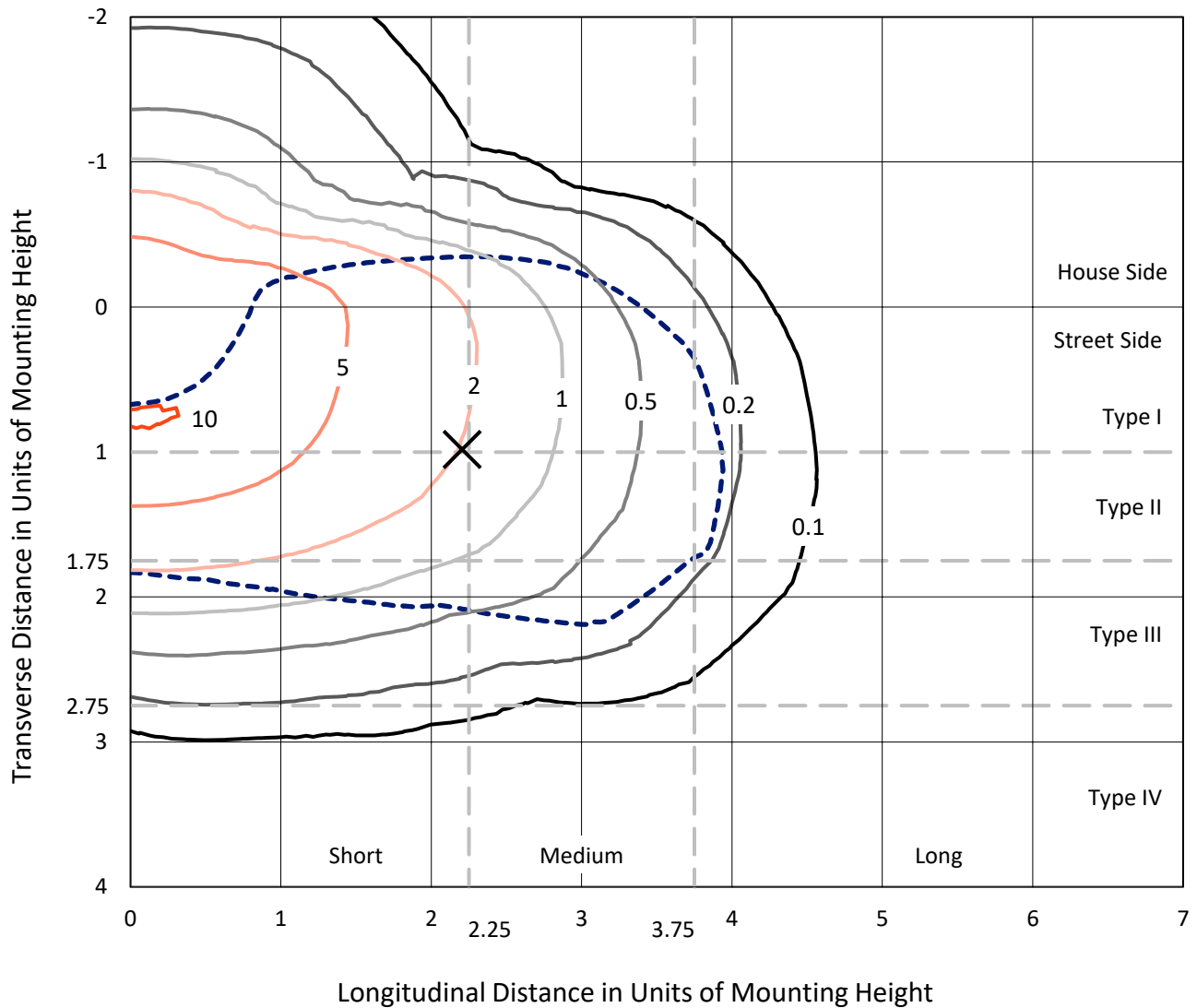
Lumens per Lamp: N/A  
Luminaire Lumens: 40886 lumens  
Efficiency: N/A  
Efficacy: 160.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

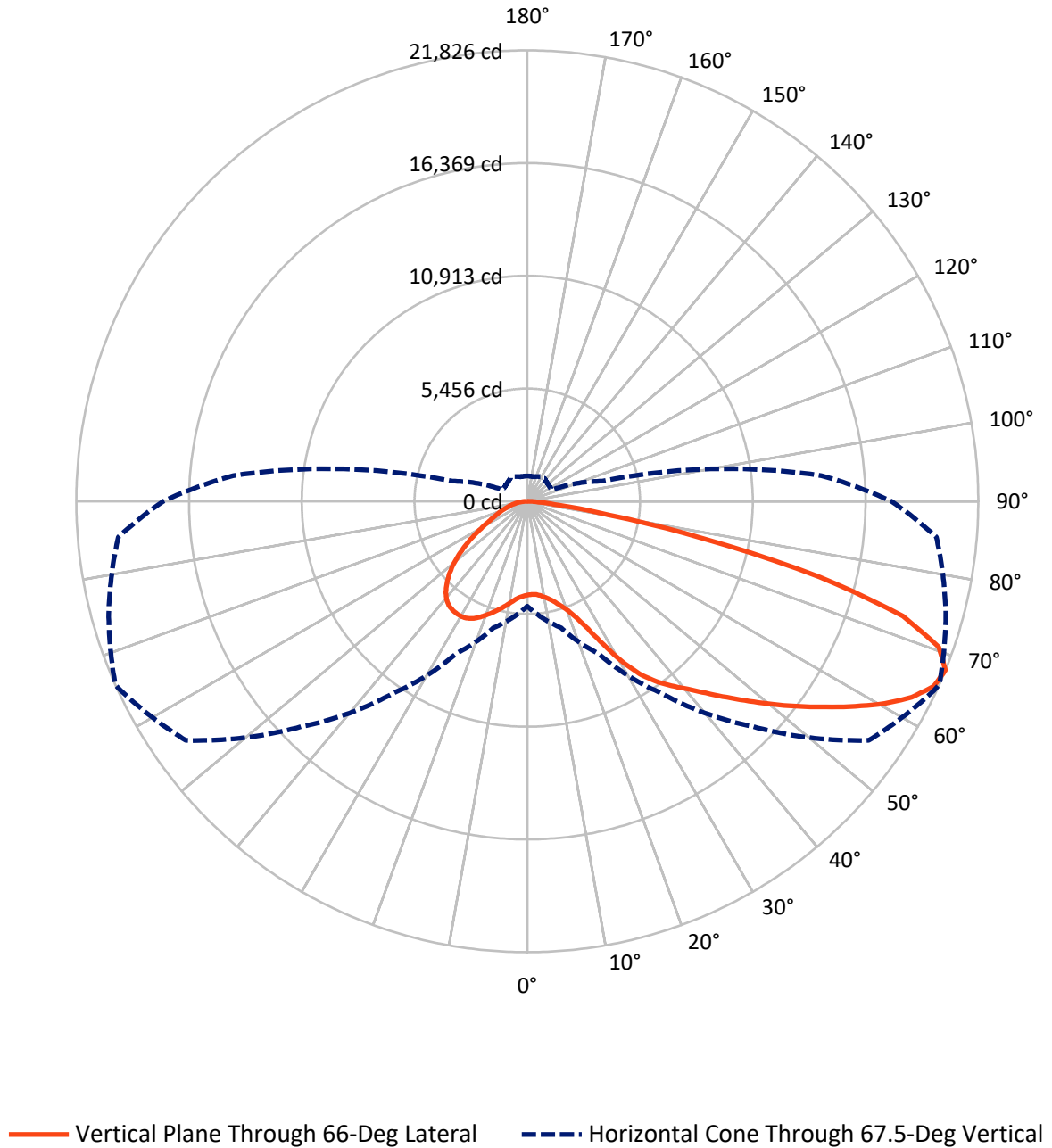
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10166.2	0.0	10166.2
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	30719.8	0.0	30719.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	40886.0	0.0	40886.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.6	1.1
10°-20°	1485.4	3.6
20°-30°	2863.1	7.0
30°-40°	5020.1	12.3
40°-50°	7463.2	18.3
50°-60°	9460.4	23.1
60°-70°	9256.7	22.6
70°-80°	4415.6	10.8
80°-90°	471.9	1.2
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°	40886.0	100.0
0°-180°	40886.0	100.0



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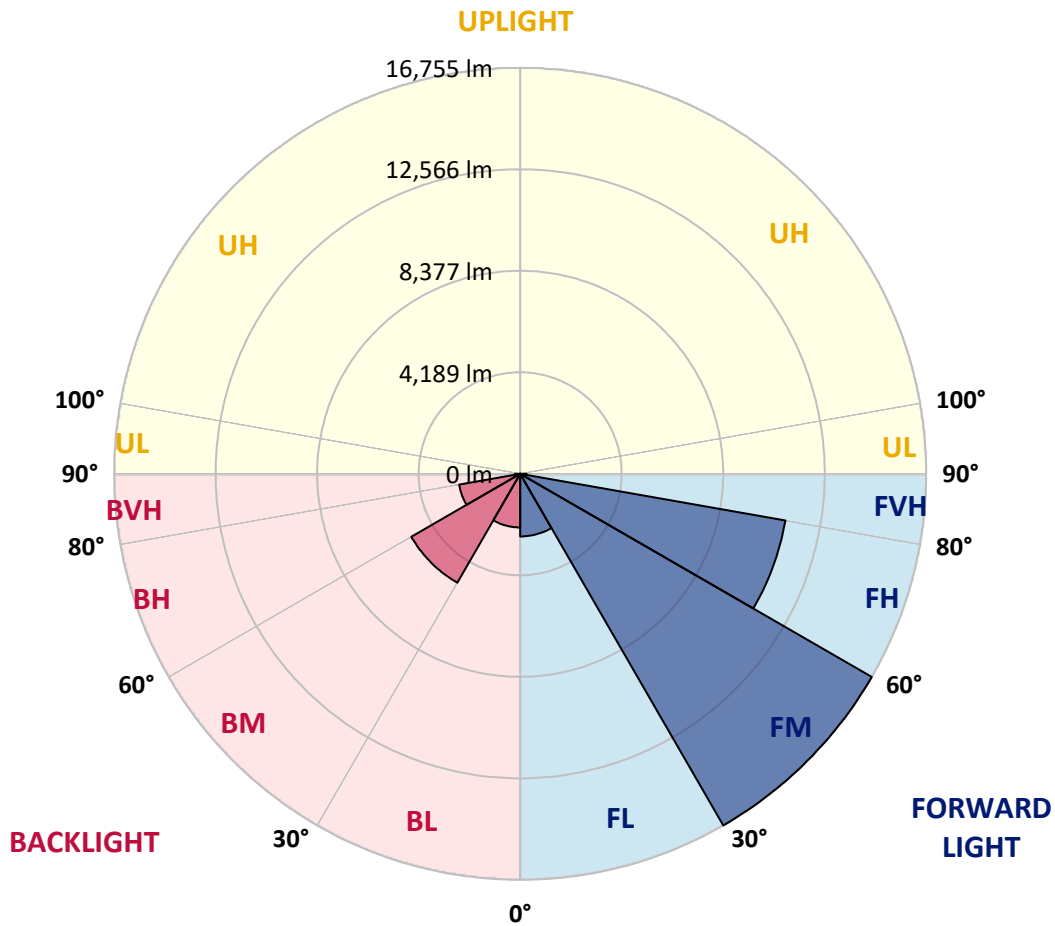
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2583.6	6.3			
FM (30°-60°)	16754.7	41.0			
FH (60°-80°)	11113.9	27.2			G4/12000
FVH (80°-90°)	267.6	0.7			G3/500
BL (0°-30°)	2214.6	5.4	B3/2500		
BM (30°-60°)	5188.9	12.7	B4/8500		
BH (60°-80°)	2558.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	204.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8
2.5°	4487.5	4513.3	4506.9	4496.1	4494.0	4498.3	4504.7	4511.2	4509.0	4519.8
5°	4474.6	4500.4	4498.3	4498.3	4506.9	4524.1	4534.8	4545.5	4534.8	4547.7
7.5°	4483.2	4502.6	4511.2	4519.8	4541.2	4573.5	4599.2	4622.9	4610.0	4625.0
10°	4592.8	4607.8	4616.4	4616.4	4631.5	4668.0	4693.8	4736.7	4726.0	4749.6
12.5°	4792.6	4807.6	4807.6	4799.0	4809.8	4833.4	4842.0	4889.2	4869.9	4908.6
15°	5037.5	5067.5	5043.9	5028.9	5033.2	5056.8	5054.7	5091.2	5071.8	5104.1
17.5°	5308.1	5346.8	5308.1	5306.0	5297.4	5323.2	5325.3	5357.5	5323.2	5346.8
20°	5628.2	5681.9	5649.7	5660.4	5641.1	5651.8	5662.6	5709.8	5656.1	5673.3
22.5°	6079.3	6143.8	6109.4	6150.2	6137.3	6128.7	6126.6	6210.4	6126.6	6133.0
25°	6736.7	6814.0	6753.9	6809.7	6809.7	6837.6	6869.9	6977.3	6837.6	6796.8
27.5°	7707.7	7785.0	7666.8	7701.2	7690.5	7759.2	7724.8	7991.2	7840.8	7774.2
30°	8876.3	9013.7	8790.3	8781.7	8771.0	8880.6	8930.0	9106.1	8953.6	8887.0
32.5°	10139.4	10283.3	10016.9	9939.6	9898.8	9965.4	9924.6	10066.3	9961.1	9858.0
35°	11475.6	11617.3	11363.8	11213.5	11050.2	10910.6	10764.5	10801.0	10702.2	10545.4
37.5°	12738.7	12998.6	12730.1	12569.0	12268.2	11995.4	11587.3	11417.6	11325.2	11181.3
40°	14025.4	14173.7	13969.6	13832.1	13505.6	13078.1	12425.0	12066.3	11941.7	11802.1
42.5°	14972.8	15114.6	15005.0	14910.5	14654.9	14158.6	13314.4	12865.4	12685.0	12528.2
45°	15724.6	15829.9	15761.2	15795.5	15686.0	15204.8	14236.0	13722.5	13535.7	13344.5
47.5°	16027.5	16139.2	16248.8	16452.9	16639.8	16285.3	15226.3	14650.6	14452.9	14257.4
50°	15993.2	16107.0	16424.9	16858.9	17438.9	17320.7	16270.3	15638.7	15456.1	15232.7
52.5°	15718.2	15847.1	16255.2	16977.0	17900.7	18096.2	17333.6	16659.1	16487.2	16220.9
55°	14996.4	15073.7	15686.0	16708.5	18010.3	18637.6	18375.5	17746.1	17574.2	17202.6
57.5°	13658.1	13769.8	14661.3	15984.6	17735.3	19004.9	19290.6	18888.9	18723.5	18188.6
60°	11911.6	12089.9	13110.3	14768.7	17035.0	19002.8	20122.0	20012.4	19874.9	19159.6
62.5°	9935.3	10141.5	11123.3	13050.2	15810.6	18463.6	20641.8	20953.3	20882.4	20055.4
65°	7630.3	7772.1	8749.5	10826.8	13905.1	17305.7	20702.0	21595.6	21608.5	20736.3
67.5°	5080.4	5488.6	6337.1	8124.4	11353.1	15413.2	20173.5	21700.9	21825.5	20970.5
70°	2479.0	3016.0	3847.4	5280.2	8124.4	12511.0	18792.2	20837.3	21114.4	20287.4
72.5°	1029.0	1203.0	1656.2	2605.7	4663.7	8442.3	16016.8	18495.8	19009.2	17975.9
75°	693.9	751.9	947.3	1336.2	2124.5	4163.2	11550.7	13791.3	14618.3	13576.5
77.5°	534.9	571.4	689.6	934.5	1263.1	1574.6	6182.4	8311.3	8738.8	8090.0
80°	421.0	449.0	515.6	681.0	895.8	842.1	2107.4	3765.8	4012.8	3366.2
82.5°	365.2	375.9	369.5	461.9	595.0	491.9	691.7	1389.9	1533.8	1112.8
85°	264.2	294.3	307.2	285.7	315.8	249.2	283.6	491.9	541.3	483.3
87.5°	107.4	159.0	195.5	184.7	116.0	70.9	88.1	143.9	165.4	180.4
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°
4534.8	0°	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8	4534.8
4536.9	2.5°	4539.1	4554.1	4564.9	4577.8	4586.4	4599.2	4625.0	4640.1	4642.2	4652.9
4571.3	5°	4579.9	4601.4	4625.0	4659.4	4698.1	4730.3	4779.7	4814.1	4826.9	4837.7
4655.1	7.5°	4668.0	4698.1	4741.0	4801.2	4857.0	4900.0	4960.1	5001.0	5041.8	5056.8
4788.3	10°	4799.0	4842.0	4904.3	4985.9	5046.1	5101.9	5164.2	5198.6	5239.4	5256.6
4947.2	12.5°	4962.3	5007.4	5089.0	5202.9	5258.7	5297.4	5318.9	5310.3	5318.9	5333.9
5138.4	15°	5149.2	5198.6	5291.0	5413.4	5452.1	5417.7	5370.4	5327.5	5321.0	5325.3
5370.4	17.5°	5370.4	5407.0	5514.4	5617.5	5589.6	5447.8	5344.7	5275.9	5241.5	5230.8
5666.9	20°	5679.8	5679.8	5767.9	5832.3	5645.4	5404.8	5243.7	5132.0	5061.1	5031.0
6070.7	22.5°	6055.7	6021.3	6077.2	6032.1	5634.7	5284.5	5061.1	4867.8	4760.4	4717.4
6635.7	25°	6532.6	6491.8	6476.7	6197.5	5557.3	5093.3	4730.3	4496.1	4401.6	4378.0
7449.9	27.5°	7252.2	7149.1	6953.6	6287.7	5415.5	4792.6	4343.6	4126.6	4072.9	4075.1
8496.0	30°	8210.3	8004.1	7525.1	6302.7	5183.5	4367.2	3948.3	3793.7	3767.9	3778.6
9374.6	32.5°	9097.5	8902.0	8109.4	6234.0	4826.9	3950.5	3593.9	3490.8	3452.1	3465.0
10044.9	35°	9793.5	9739.8	8650.7	6137.3	4388.7	3559.5	3276.0	3187.9	3112.7	3095.5
10676.4	37.5°	10450.9	10429.4	9056.7	6002.0	3954.8	3282.4	3020.3	2904.3	2794.8	2734.6
11374.6	40°	11172.7	11151.2	9323.1	5793.6	3570.3	3041.8	2790.5	2638.0	2502.6	2393.1
12165.1	42.5°	11984.7	11857.9	9449.8	5495.0	3243.7	2837.7	2603.6	2397.4	2219.1	2118.1
13058.8	45°	12871.9	12586.2	9447.7	5114.8	2968.8	2650.8	2403.8	2111.7	1946.2	1851.7
13976.0	47.5°	13812.8	13282.2	9331.7	4693.8	2702.4	2444.6	2094.5	1871.1	1761.5	1703.5
14972.8	50°	14783.7	13933.1	9134.0	4210.4	2429.6	2210.5	1901.1	1748.6	1664.8	1611.1
15960.9	52.5°	15696.7	14523.8	8895.6	3662.6	2152.5	1982.8	1815.2	1697.1	1609.0	1548.8
16919.0	55°	16545.2	15032.9	8558.3	3102.0	1926.9	1830.2	1774.4	1675.6	1574.6	1503.7
17892.2	57.5°	17299.3	15363.7	7976.2	2575.7	1765.8	1725.0	1731.4	1639.1	1523.1	1462.9
18850.2	60°	17926.5	15606.5	7114.8	2088.0	1634.8	1621.9	1664.8	1570.3	1435.0	1366.2
19660.1	62.5°	18302.5	15602.2	6057.9	1709.9	1523.1	1527.4	1576.8	1484.4	1346.9	1282.5
20083.3	65°	18270.2	15219.8	4897.8	1462.9	1415.6	1419.9	1484.4	1389.9	1273.9	1235.2
19870.6	67.5°	17623.6	14287.5	3757.2	1301.8	1297.5	1316.8	1392.0	1325.4	1228.8	1224.5
18603.2	70°	15872.9	12352.0	2706.7	1172.9	1175.1	1203.0	1301.8	1284.6	1205.1	1213.7
15640.9	72.5°	12727.9	9417.6	1817.4	1037.6	1039.7	1084.8	1215.9	1252.4	1181.5	1295.3
11097.5	75°	8476.7	5873.1	1168.6	893.6	895.8	953.8	1140.7	1190.1	1117.1	1291.1
5774.3	77.5°	4072.9	2640.1	846.4	751.9	751.9	805.6	986.0	1065.5	951.6	1003.2
1856.0	80°	1407.1	992.5	665.9	605.8	592.9	629.4	831.3	923.7	820.6	756.2
605.8	82.5°	554.2	515.6	534.9	470.5	427.5	451.1	646.6	762.6	603.6	545.6
341.6	85°	317.9	335.1	378.1	311.5	247.0	277.1	474.7	547.8	455.4	401.7
111.7	87.5°	85.9	118.1	174.0	161.1	111.7	118.1	225.6	302.9	262.1	201.9
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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<u>180°</u>
4534.8
4650.8
4835.5
5059.0
5265.2
5338.2
5340.4
5245.8
5024.6
4710.9
4382.3
4081.5
3815.2
3482.2
3108.4
2736.8
2403.8
2124.5
1847.4
1690.6
1591.8
1523.1
1475.8
1424.2
1336.2
1263.1
1233.1
1230.9
1211.6
1312.5
1301.8
919.4
708.9
543.5
410.3
208.4
0.0

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