

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: P957239

Luminaire Tested: **GALN-SB9C-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

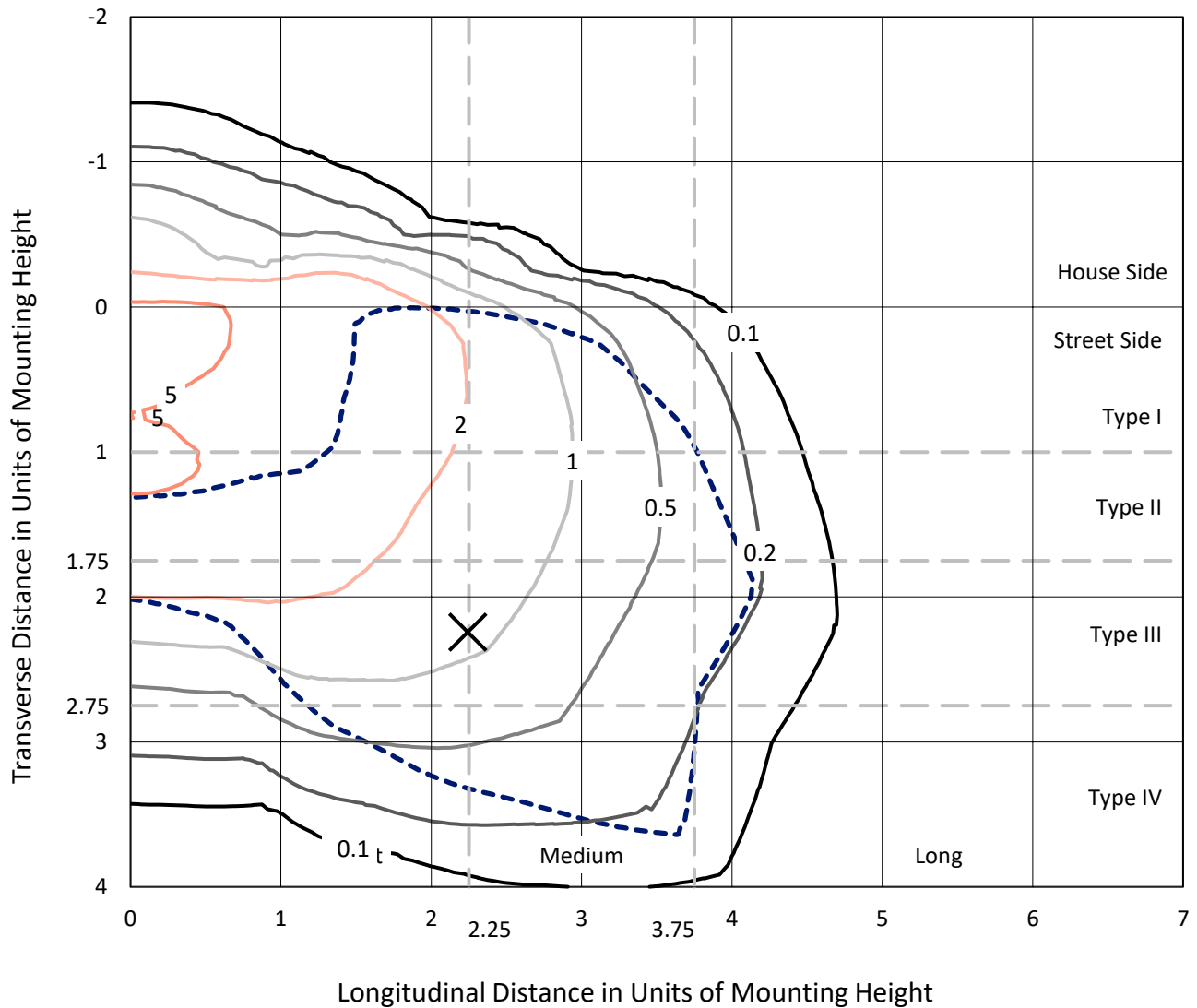
Lumens per Lamp: N/A  
Luminaire Lumens: 31983 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

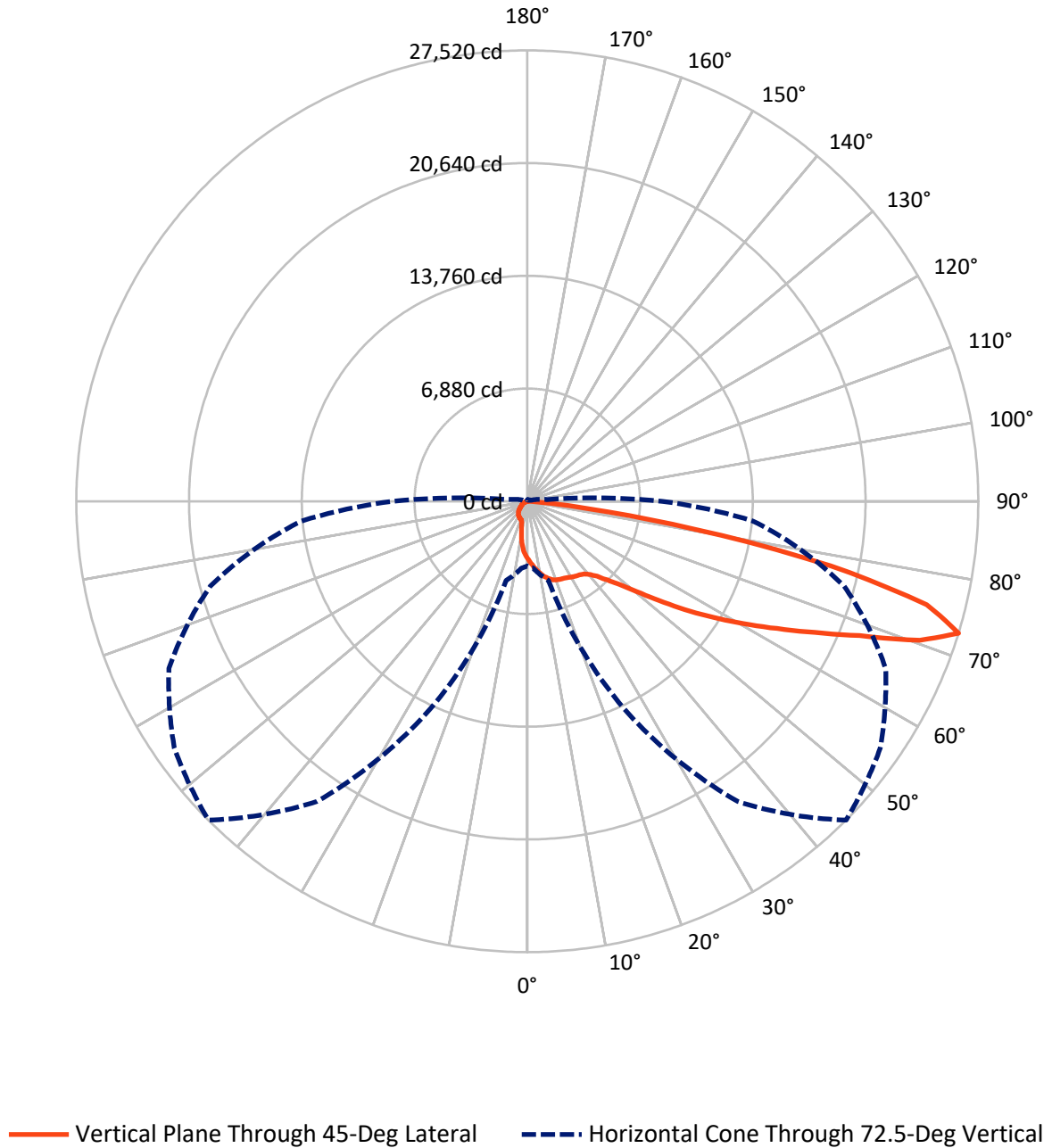
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - 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	3360.5	0.0	3360.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	28622.5	0.0	28622.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	31983.0	0.0	31983.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	1.0
10°-20°	964.8	3.0
20°-30°	1584.4	5.0
30°-40°	2247.0	7.0
40°-50°	3714.1	11.6
50°-60°	6672.0	20.9
60°-70°	9264.5	29.0
70°-80°	6720.1	21.0
80°-90°	485.8	1.5
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°	31983.0	100.0
0°-180°	31983.0	100.0



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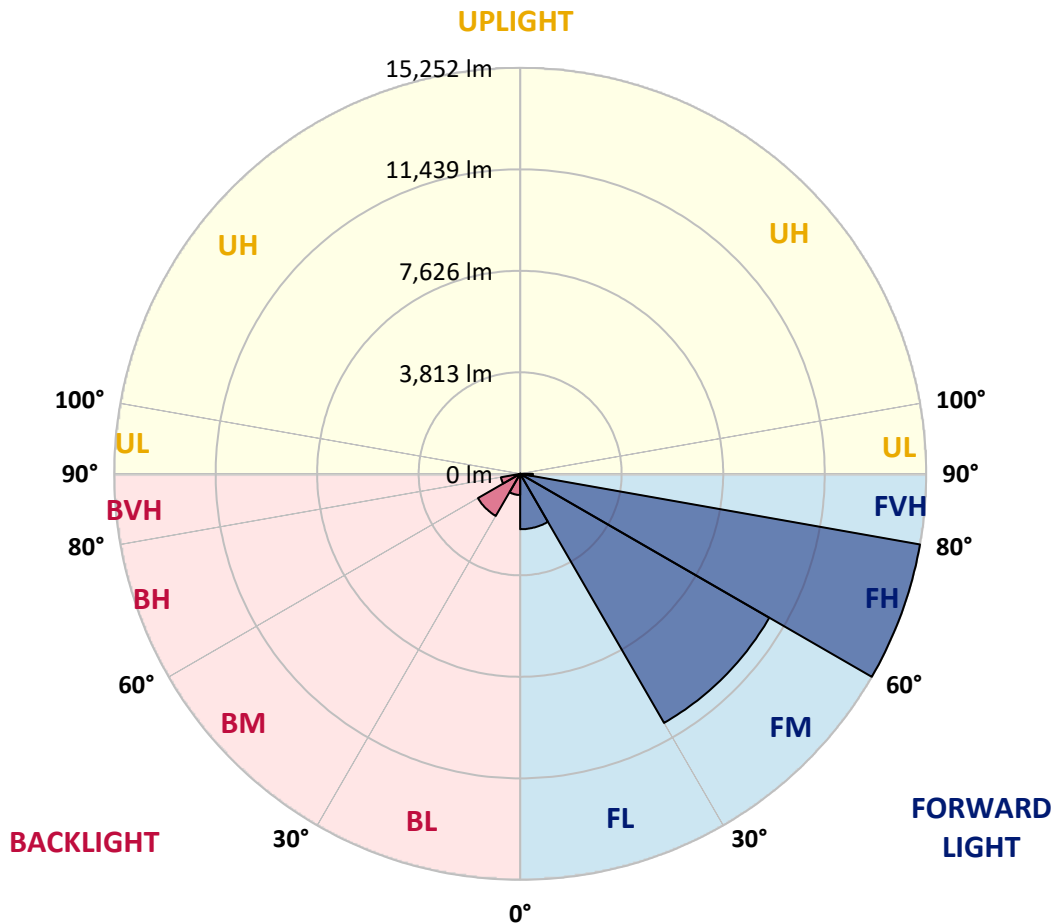
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.4	6.5			
FM (30°-60°)	10805.6	33.8			
FH (60°-80°)	15251.8	47.7			G5
FVH (80°-90°)	481.8	1.5			G3/500
BL (0°-30°)	796.0	2.5	B2/1000		
BM (30°-60°)	1827.6	5.7	B2/2500		
BH (60°-80°)	732.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.1	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
2.5°	3826.9	3833.4	3829.1	3802.9	3759.2	3735.2	3722.1	3678.5	3650.1	3599.9
5°	4178.4	4204.6	4189.3	4136.9	4053.9	3995.0	3977.5	3888.0	3807.3	3713.4
7.5°	4551.7	4564.8	4536.4	4468.7	4357.4	4257.0	4241.7	4117.2	3988.4	3844.4
10°	4874.8	4890.0	4846.4	4748.1	4621.5	4497.1	4475.3	4337.7	4184.9	4008.1
12.5°	5145.5	5160.7	5104.0	4986.1	4846.4	4717.6	4695.8	4551.7	4383.6	4187.1
15°	5350.7	5379.1	5302.6	5176.0	5025.4	4896.6	4885.7	4743.8	4580.1	4361.7
17.5°	5470.7	5499.1	5427.1	5274.3	5145.5	5036.3	5023.2	4905.3	4752.5	4542.9
20°	5490.4	5516.6	5440.2	5307.0	5200.0	5112.7	5106.2	5021.0	4909.7	4708.9
22.5°	5431.4	5464.2	5394.3	5287.4	5213.1	5167.3	5158.6	5110.5	5047.2	4876.9
25°	5370.3	5396.5	5344.1	5250.3	5211.0	5206.6	5213.1	5204.4	5191.3	5047.2
27.5°	5366.0	5394.3	5335.4	5245.9	5224.1	5269.9	5276.4	5317.9	5328.8	5202.2
30°	5403.1	5422.7	5366.0	5272.1	5261.2	5366.0	5368.1	5442.4	5459.8	5333.2
32.5°	5483.8	5505.7	5448.9	5311.4	5296.1	5442.4	5448.9	5547.1	5575.5	5472.9
35°	5673.8	5700.0	5634.5	5420.5	5366.0	5514.4	5534.0	5649.8	5706.5	5621.4
37.5°	6147.5	6071.1	5981.6	5641.0	5525.3	5627.9	5660.7	5796.0	5896.4	5798.2
40°	7324.2	7084.0	6804.6	6016.5	5804.7	5870.2	5896.4	6031.8	6169.3	6073.3
42.5°	9090.2	8806.4	8356.7	6881.0	6226.1	6258.8	6278.5	6396.4	6590.6	6514.2
45°	10664.2	10561.6	10103.2	8356.7	7014.2	6852.6	6876.6	6937.8	7223.7	7195.4
47.5°	11873.6	11814.7	11461.0	10050.8	8345.8	7579.6	7647.2	7675.6	8088.2	8188.6
50°	12803.6	12781.8	12465.3	11557.1	10085.7	8651.5	8675.5	8614.3	9232.1	9481.0
52.5°	13681.2	13755.4	13521.9	12956.4	11943.5	10055.2	10050.8	9762.6	10596.6	10972.0
55°	14473.7	14499.9	14523.9	14384.2	13812.2	11653.2	11611.7	11140.1	12179.3	12567.9
57.5°	15218.1	15229.0	15442.9	15728.9	15757.3	13369.0	13292.6	12727.2	13908.3	14185.5
60°	15718.0	15768.2	16220.1	17014.7	17361.8	15139.5	15098.0	14521.7	15667.8	15796.6
62.5°	14997.6	15303.2	16442.8	18018.9	18876.9	17102.1	17082.4	16541.0	17519.0	17414.2
65°	12140.0	12657.4	14661.4	18697.9	20363.6	19293.9	19322.2	18745.9	19420.5	19079.9
67.5°	8492.1	9037.9	11408.7	18752.5	22024.9	21867.7	22031.4	21127.6	21439.8	20675.7
70°	5872.4	6154.0	7697.5	17578.0	23319.4	25413.0	25408.6	24052.9	23448.2	21402.7
72.5°	3949.1	4095.4	4999.2	13945.4	22367.6	27519.6	27393.0	26288.4	24125.0	20016.4
75°	1665.7	1772.6	2314.0	7837.2	17695.9	25177.2	24834.5	23232.1	21435.4	15761.7
77.5°	528.3	574.1	912.5	2805.2	9747.3	18924.9	18562.5	14508.6	14366.7	7907.0
80°	251.1	292.5	513.0	1126.5	3835.6	10293.1	10242.9	6581.9	6180.2	2135.0
82.5°	109.2	128.8	283.8	602.5	1715.9	3671.9	3746.1	2239.8	1853.4	809.9
85°	34.9	45.8	131.0	277.2	724.8	912.5	901.6	532.7	746.6	441.0
87.5°	0.0	0.0	43.7	63.3	74.2	52.4	58.9	45.8	207.4	122.3
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°
3503.8	0°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
3547.5	2.5°	3521.3	3486.3	3425.2	3368.5	3318.2	3268.0	3237.5	3193.8	3189.4	3189.4
3604.2	5°	3545.3	3488.5	3379.4	3263.7	3130.5	3003.9	2877.3	2755.0	2715.7	2687.3
3695.9	7.5°	3615.1	3525.6	3353.2	3132.7	2879.5	2602.2	2407.9	2198.3	2117.6	2073.9
3818.2	10°	3715.6	3593.3	3331.3	2944.9	2534.5	2156.9	1879.6	1652.6	1565.3	1528.1
3951.3	12.5°	3826.9	3676.3	3292.0	2711.4	2156.9	1705.0	1434.3	1329.5	1316.4	1316.4
4110.7	15°	3960.1	3776.7	3224.4	2436.3	1761.7	1349.1	1253.1	1257.4	1270.5	1279.3
4265.7	17.5°	4097.6	3883.7	3117.4	2128.5	1412.4	1213.8	1216.0	1222.5	1233.4	1242.2
4433.8	20°	4246.0	3990.6	2975.5	1801.0	1211.6	1174.5	1181.0	1187.6	1196.3	1200.7
4591.0	22.5°	4405.4	4091.0	2807.4	1480.1	1143.9	1141.7	1143.9	1150.5	1161.4	1161.4
4774.3	25°	4575.7	4202.4	2615.3	1246.5	1109.0	1109.0	1113.4	1117.7	1126.5	1126.5
4951.2	27.5°	4750.3	4305.0	2412.3	1124.3	1078.4	1076.2	1076.2	1082.8	1087.2	1089.3
5125.8	30°	4942.4	4425.1	2209.3	1098.1	1054.4	1043.5	1037.0	1041.3	1045.7	1047.9
5309.2	32.5°	5138.9	4540.8	2028.1	1109.0	1030.4	1010.8	988.9	984.6	984.6	993.3
5499.1	35°	5357.2	4667.4	1888.3	1146.1	1017.3	962.7	927.8	908.2	910.3	923.4
5726.2	37.5°	5619.2	4820.2	1785.7	1178.9	1008.6	908.2	851.4	827.4	812.1	827.4
6038.3	40°	5961.9	5045.0	1711.5	1205.0	997.7	844.8	768.4	729.1	700.8	709.5
6523.0	42.5°	6466.2	5398.7	1683.1	1207.2	973.6	770.6	683.3	630.9	589.4	591.6
7252.1	45°	7173.5	5957.6	1829.4	1178.9	921.2	689.8	593.8	523.9	497.7	491.2
8341.5	47.5°	8142.8	6771.8	2167.8	1119.9	844.8	611.3	506.5	447.5	427.9	417.0
9771.4	50°	9441.7	7817.5	2543.3	1054.4	768.4	537.0	434.4	397.3	384.2	373.3
11467.6	52.5°	10948.0	8878.5	2851.1	988.9	692.0	471.5	388.6	366.8	355.8	347.1
13104.9	55°	12329.9	9609.8	2833.6	919.1	617.8	419.1	355.8	342.7	329.6	320.9
14515.1	57.5°	13190.0	9712.4	2335.9	842.7	532.7	377.7	325.3	316.5	301.3	290.3
15735.5	60°	13585.2	9127.4	1637.3	742.2	447.5	338.4	292.5	288.2	268.5	253.2
16890.3	62.5°	13657.2	8040.2	1091.5	617.8	373.3	301.3	259.8	253.2	227.0	200.8
17829.0	65°	13364.7	6485.9	755.3	482.5	318.7	262.0	222.7	209.6	181.2	155.0
18051.7	67.5°	12439.1	4553.9	526.1	347.1	270.7	207.4	176.8	172.5	150.6	128.8
16916.5	70°	10742.8	2595.7	351.5	259.8	213.9	141.9	139.7	144.1	122.3	104.8
13820.9	72.5°	8236.7	1187.6	218.3	189.9	146.3	96.1	111.3	113.5	93.9	78.6
8623.1	75°	4848.6	508.7	137.5	122.3	74.2	63.3	80.8	83.0	63.3	50.2
3152.3	77.5°	1650.4	192.1	87.3	72.0	37.1	34.9	52.4	52.4	34.9	19.6
633.1	80°	375.5	72.0	43.7	28.4	17.5	15.3	17.5	15.3	8.7	2.2
194.3	82.5°	107.0	28.4	17.5	10.9	6.5	6.5	2.2	0.0	0.0	0.0
67.7	85°	30.6	13.1	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
24.0	87.5°	13.1	2.2	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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180°
3503.8
3200.4
2700.4
2080.5
1528.1
1316.4
1279.3
1242.2
1202.9
1165.8
1128.6
1091.5
1052.2
999.8
930.0
823.0
705.1
582.9
482.5
410.4
371.1
344.9
316.5
288.2
248.9
187.7
146.3
122.3
96.1
69.9
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