

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: P943428

Luminaire Tested: **GALN-SB7D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

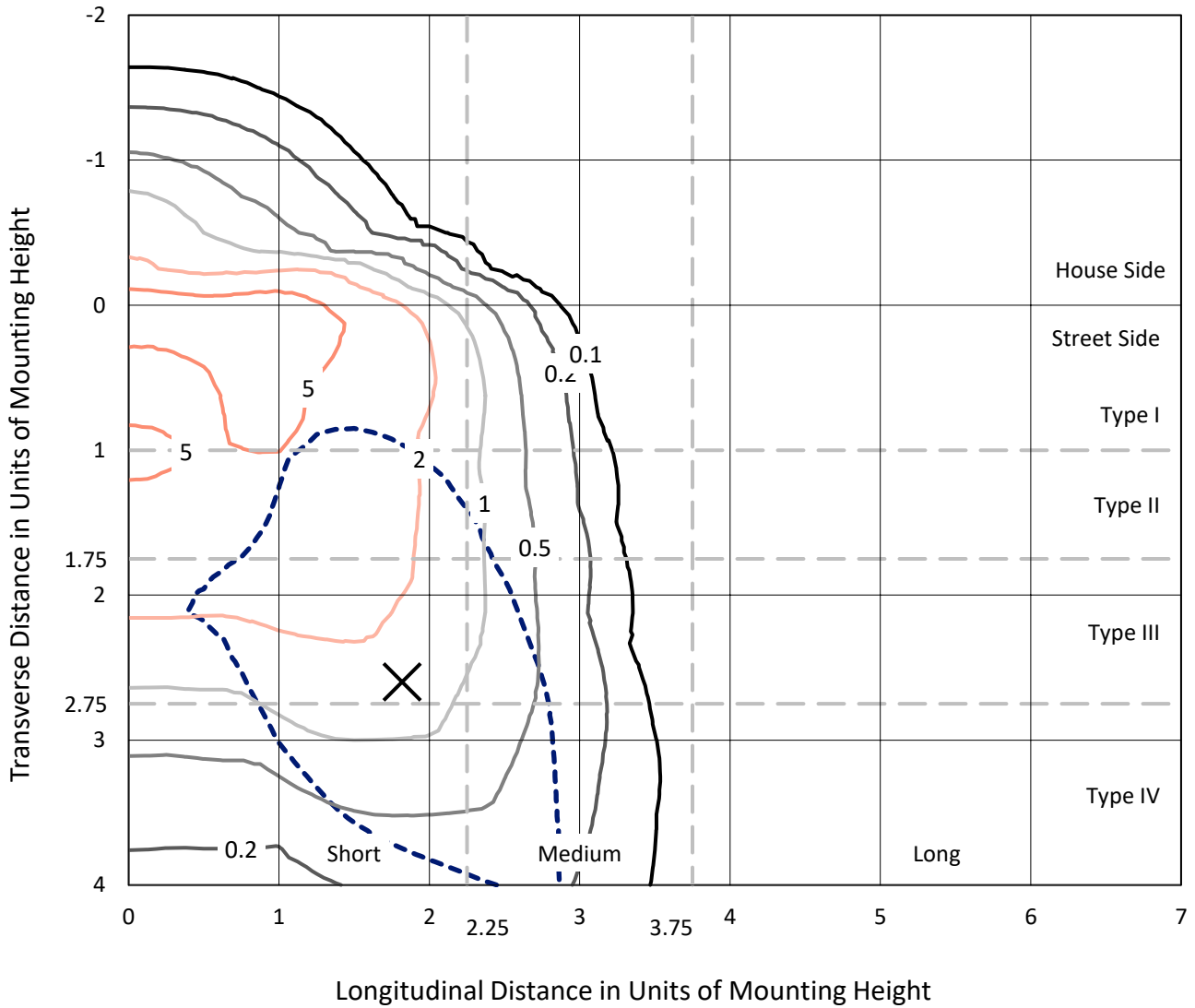
Lumens per Lamp: N/A  
Luminaire Lumens: 33353 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

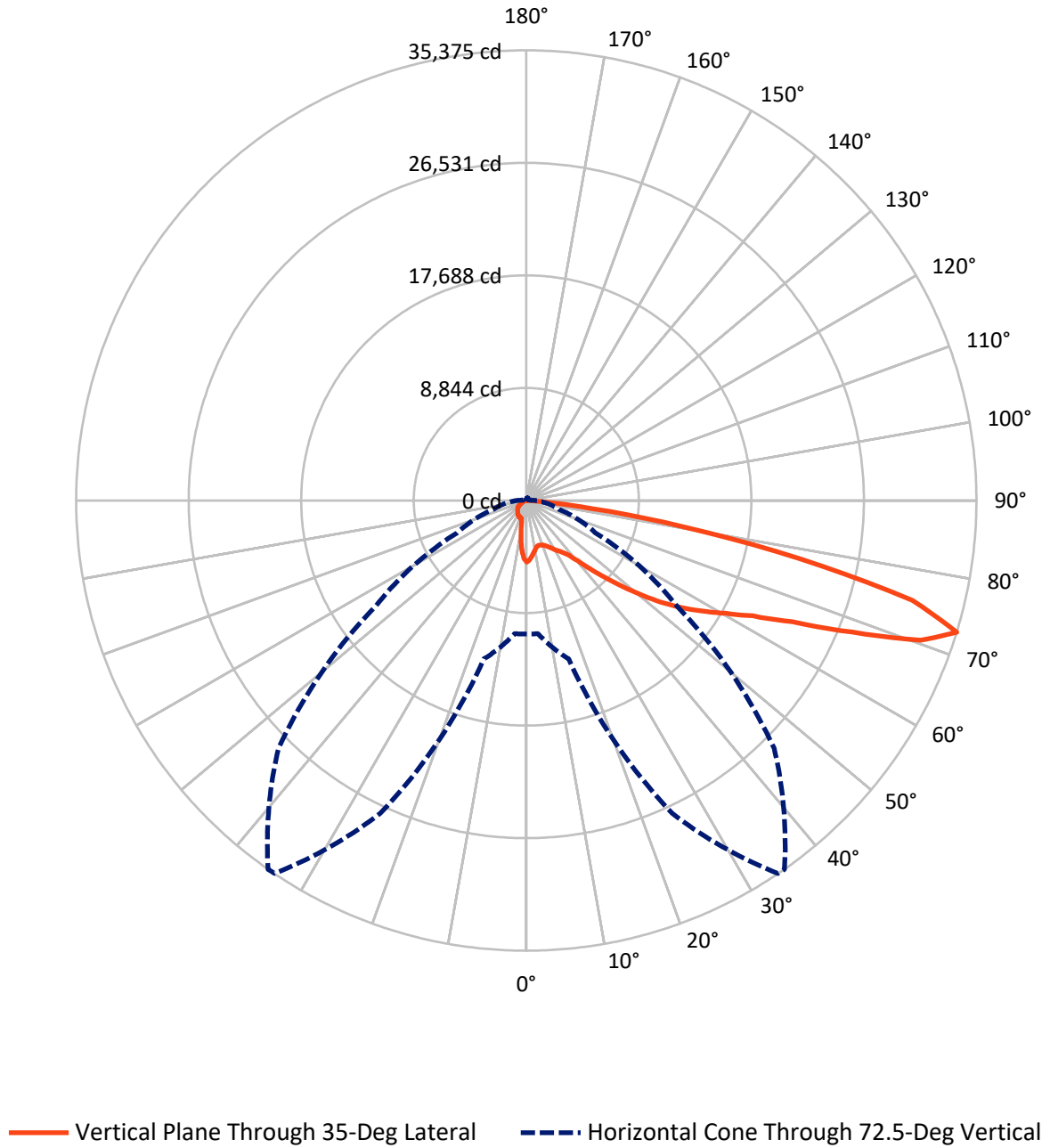
✕ Max cd  
 - - - 1/2 Max cd



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	3753.7	0.0	3753.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	29599.3	0.0	29599.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	33353.0	0.0	33353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	1.2
10°-20°	929.3	2.8
20°-30°	1509.6	4.5
30°-40°	2518.7	7.6
40°-50°	4765.4	14.3
50°-60°	7572.2	22.7
60°-70°	9367.3	28.1
70°-80°	5822.8	17.5
80°-90°	470.6	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°	33353.0	100.0
0°-180°	33353.0	100.0

**Coefficient of Utilization**



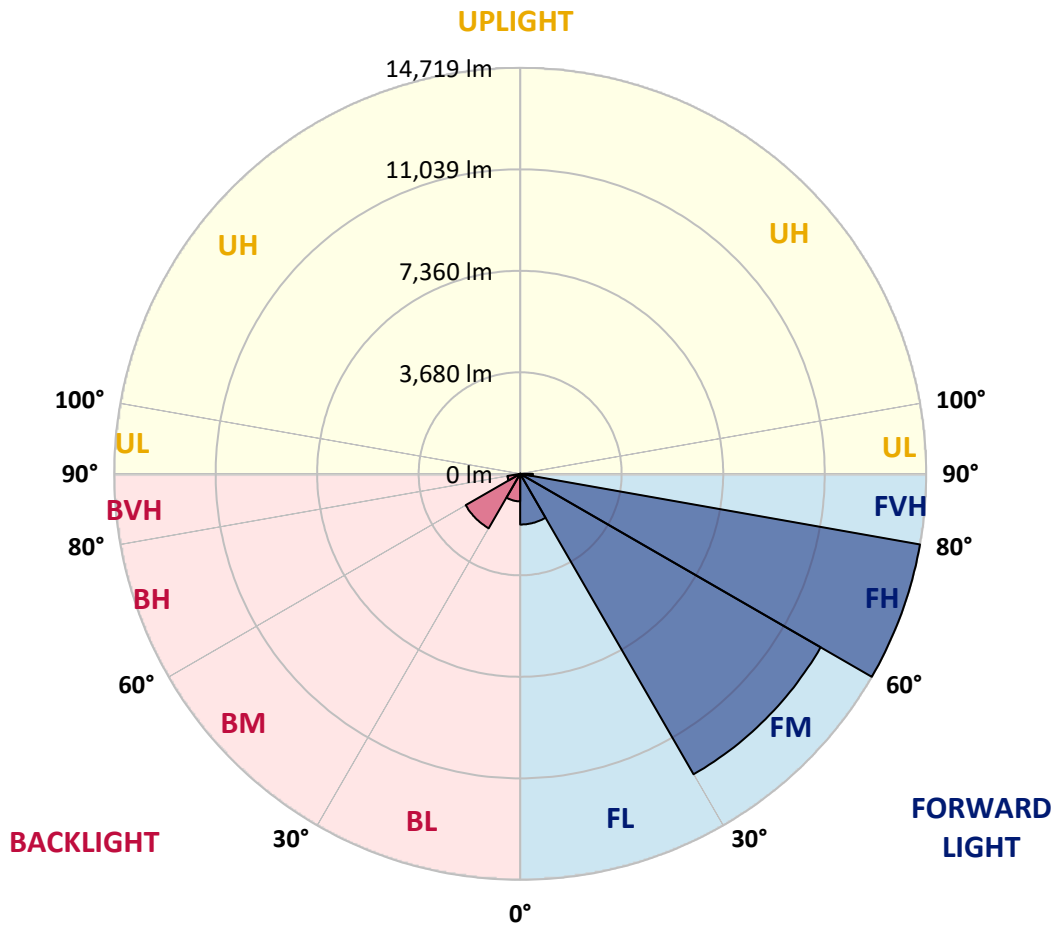
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.6	5.5			
FM (30°-60°)	12577.4	37.7			
FH (60°-80°)	14719.1	44.1			G5
FVH (80°-90°)	464.2	1.4			G3/500
BL (0°-30°)	997.4	3.0	B2/1000		
BM (30°-60°)	2278.9	6.8	B2/2500		
BH (60°-80°)	471.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.4	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°	34°	35°	45°	55°	65°	75°
0°	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0
2.5°	4618.9	4658.0	4665.3	4677.6	4677.6	4692.2	4716.7	4750.9	4807.1	4836.4
5°	4257.2	4286.5	4323.2	4352.5	4408.7	4416.1	4511.4	4604.2	4733.8	4831.5
7.5°	3893.1	3927.3	3976.2	4047.0	4120.4	4142.4	4286.5	4442.9	4648.2	4831.5
10°	3636.5	3638.9	3682.9	3753.8	3871.1	3898.0	4073.9	4296.3	4552.9	4802.2
12.5°	3492.3	3509.4	3528.9	3582.7	3695.1	3712.2	3900.4	4161.9	4457.6	4785.1
15°	3492.3	3504.5	3516.7	3543.6	3634.0	3648.7	3814.9	4076.4	4408.7	4792.4
17.5°	3528.9	3548.5	3538.7	3570.5	3665.8	3675.6	3822.2	4051.9	4406.3	4838.9
20°	3616.9	3631.6	3612.0	3631.6	3726.9	3746.4	3898.0	4098.4	4447.8	4919.5
22.5°	3756.2	3763.6	3717.1	3731.8	3829.5	3854.0	4029.9	4230.3	4548.0	5049.0
25°	3932.2	3946.8	3876.0	3893.1	3985.9	4015.3	4218.1	4428.3	4706.9	5227.4
27.5°	4135.0	4142.4	4081.3	4078.8	4198.6	4240.1	4445.4	4672.7	4919.5	5452.3
30°	4367.2	4389.2	4330.5	4320.8	4472.3	4506.5	4709.3	4973.3	5232.3	5789.5
32.5°	4550.5	4567.6	4533.4	4557.8	4711.8	4738.7	5029.5	5398.5	5723.5	6268.5
35°	4814.4	4824.2	4746.0	4790.0	4965.9	5034.4	5466.9	5994.8	6341.8	6869.7
37.5°	5770.0	5770.0	5437.6	5220.1	5388.7	5449.8	6065.7	6745.1	7104.3	7676.2
40°	7092.1	7070.1	6583.8	6139.0	6117.0	6236.7	6918.6	7690.8	8089.2	8644.0
42.5°	8502.2	8468.0	7805.7	7365.8	7292.5	7334.0	7903.5	8856.6	9262.3	9824.3
45°	9753.5	9743.7	9137.6	8546.2	8414.2	8546.2	9132.7	10220.2	10511.1	11102.5
47.5°	10801.9	10801.9	10359.6	9973.4	9905.0	9983.2	10797.0	11733.0	11706.1	12463.7
50°	12009.2	11999.4	11579.0	11412.9	11483.7	11593.7	12713.0	13326.4	12942.7	13800.5
52.5°	12854.7	12913.4	12769.2	12742.3	13104.0	13294.6	14658.3	14885.6	14049.8	15068.9
55°	13524.4	13592.8	13759.0	13947.1	14643.6	14892.9	16542.5	16364.1	14976.0	16168.6
57.5°	14472.6	14374.8	14631.4	15002.9	16129.5	16430.1	18368.1	17759.6	15721.4	17060.6
60°	15623.6	15638.3	15682.3	16151.5	17612.9	17999.1	20166.8	19079.3	16200.4	17608.1
62.5°	17006.9	17028.9	17119.3	17840.2	19604.7	19968.8	22082.8	20159.5	16420.3	17454.1
65°	16911.6	17004.4	18013.7	20479.6	22632.6	22991.9	24318.9	20917.1	16088.0	16046.4
67.5°	15406.1	15557.7	17246.4	23632.2	27197.8	27598.6	27021.8	21066.1	14653.4	12478.4
70°	13431.5	13485.3	15516.1	26467.1	32483.9	32889.6	29441.3	19426.3	11119.6	6960.1
72.5°	10489.1	10501.3	12884.1	27124.5	35353.0	35375.0	27542.4	14421.3	5980.1	2673.6
75°	7492.9	7419.6	8629.3	21997.2	31103.1	31352.4	20648.2	6764.6	2285.0	1263.5
77.5°	4017.7	4098.4	4882.8	13045.4	21486.5	21911.7	11266.2	1950.2	1163.3	860.2
80°	1241.5	1309.9	2001.5	5972.8	12170.5	12427.1	4176.6	867.6	811.4	613.4
82.5°	391.0	405.7	933.6	2509.9	5051.5	5168.8	1209.7	491.2	554.8	405.7
85°	112.4	114.9	415.5	936.0	1248.8	1273.3	339.7	190.6	317.7	251.7
87.5°	12.2	39.1	156.4	156.4	110.0	107.5	36.7	41.5	90.4	31.8
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°
4834.0	0°	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0	4834.0
4856.0	2.5°	4843.7	4846.2	4814.4	4760.7	4702.0	4653.1	4592.0	4543.1	4508.9	4499.2
4900.0	5°	4878.0	4860.9	4770.4	4606.7	4411.2	4242.6	4054.4	3905.3	3807.5	3766.0
4946.4	7.5°	4929.3	4880.4	4682.4	4359.9	3985.9	3653.6	3316.3	3054.8	2888.7	2805.6
4990.4	10°	4973.3	4875.5	4535.8	4003.1	3431.2	2927.8	2473.2	2157.9	1982.0	1898.9
5041.7	12.5°	5014.8	4873.1	4345.2	3580.3	2805.6	2189.7	1766.9	1610.5	1561.6	1544.5
5124.8	15°	5093.0	4880.4	4105.7	3096.4	2182.4	1654.5	1500.5	1498.1	1507.9	1503.0
5251.9	17.5°	5200.5	4887.7	3834.4	2583.2	1683.8	1459.0	1451.7	1473.7	1488.3	1481.0
5410.7	20°	5339.8	4917.1	3546.1	2074.8	1446.8	1410.1	1427.2	1446.8	1459.0	1446.8
5623.3	22.5°	5535.4	4968.4	3230.8	1666.7	1371.0	1380.8	1395.4	1417.4	1429.7	1412.6
5894.6	25°	5774.9	5049.0	2920.4	1449.2	1334.4	1346.6	1368.6	1393.0	1407.7	1390.6
6236.7	27.5°	6085.2	5178.6	2634.5	1400.3	1297.7	1305.0	1336.8	1373.5	1393.0	1371.0
6723.1	30°	6534.9	5391.2	2387.7	1422.3	1275.7	1258.6	1302.6	1353.9	1375.9	1356.3
7385.4	32.5°	7131.2	5691.8	2236.1	1456.5	1265.9	1204.8	1246.4	1312.4	1349.0	1336.8
8250.5	35°	7913.2	6148.8	2177.5	1495.6	1258.6	1148.6	1177.9	1248.8	1312.4	1324.6
9340.5	37.5°	8861.5	6784.2	2194.6	1512.8	1236.6	1102.2	1116.8	1177.9	1261.0	1300.1
10567.3	40°	9939.2	7524.7	2292.3	1495.6	1212.2	1063.1	1065.5	1112.0	1185.3	1243.9
11887.0	42.5°	11051.2	8389.8	2473.2	1432.1	1190.2	1028.9	1021.5	1053.3	1102.2	1143.7
13204.2	45°	12109.4	9279.4	2651.6	1344.1	1163.3	994.7	977.5	989.8	999.5	1016.6
14487.2	47.5°	13033.1	9905.0	2600.3	1263.5	1126.6	955.6	926.2	921.3	892.0	889.6
15633.4	50°	13671.0	10041.8	2309.5	1182.8	1072.9	911.6	865.1	835.8	784.5	760.0
16491.2	52.5°	13873.8	9501.8	1886.7	1102.2	984.9	852.9	786.9	740.5	677.0	655.0
16984.9	55°	13605.0	8443.6	1507.9	1004.4	862.7	774.7	701.4	640.3	589.0	562.1
17038.6	57.5°	12947.6	7097.0	1192.6	889.6	733.2	686.7	613.4	552.3	508.3	481.4
16442.3	60°	11857.6	5635.6	943.3	752.7	625.6	591.4	515.7	476.6	437.5	405.7
14902.7	62.5°	10203.1	4022.6	740.5	596.3	523.0	483.9	439.9	410.6	364.1	320.1
12133.8	65°	7962.1	2461.0	571.9	437.5	420.3	400.8	373.9	347.0	290.8	246.8
7915.7	67.5°	5022.1	1165.7	408.1	329.9	332.4	322.6	310.4	288.4	246.8	207.7
3546.1	70°	2211.7	564.5	268.8	251.7	246.8	246.8	256.6	249.3	210.2	173.5
1231.7	72.5°	752.7	303.0	200.4	190.6	178.4	176.0	215.1	207.7	168.6	134.4
613.4	75°	393.5	202.8	146.6	136.9	107.5	129.5	171.1	161.3	119.7	88.0
405.7	77.5°	256.6	144.2	100.2	88.0	61.1	85.5	127.1	112.4	70.9	44.0
266.4	80°	161.3	95.3	58.7	41.5	29.3	46.4	68.4	48.9	26.9	9.8
156.4	82.5°	85.5	48.9	22.0	14.7	12.2	14.7	17.1	12.2	4.9	0.0
80.6	85°	34.2	17.1	7.3	4.9	2.4	0.0	4.9	2.4	0.0	0.0
14.7	87.5°	12.2	2.4	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>
4834.0
4516.3
3780.7
2817.8
1901.3
1539.6
1500.5
1478.5
1444.3
1410.1
1388.1
1371.0
1353.9
1336.8
1324.6
1309.9
1263.5
1160.8
1026.4
887.1
762.5
652.5
562.1
476.6
398.4
312.8
239.5
202.8
166.2
127.1
80.6
39.1
7.3
0.0
0.0
0.0
0.0

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