

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: P941379

Luminaire Tested: **GALN-SB4D-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

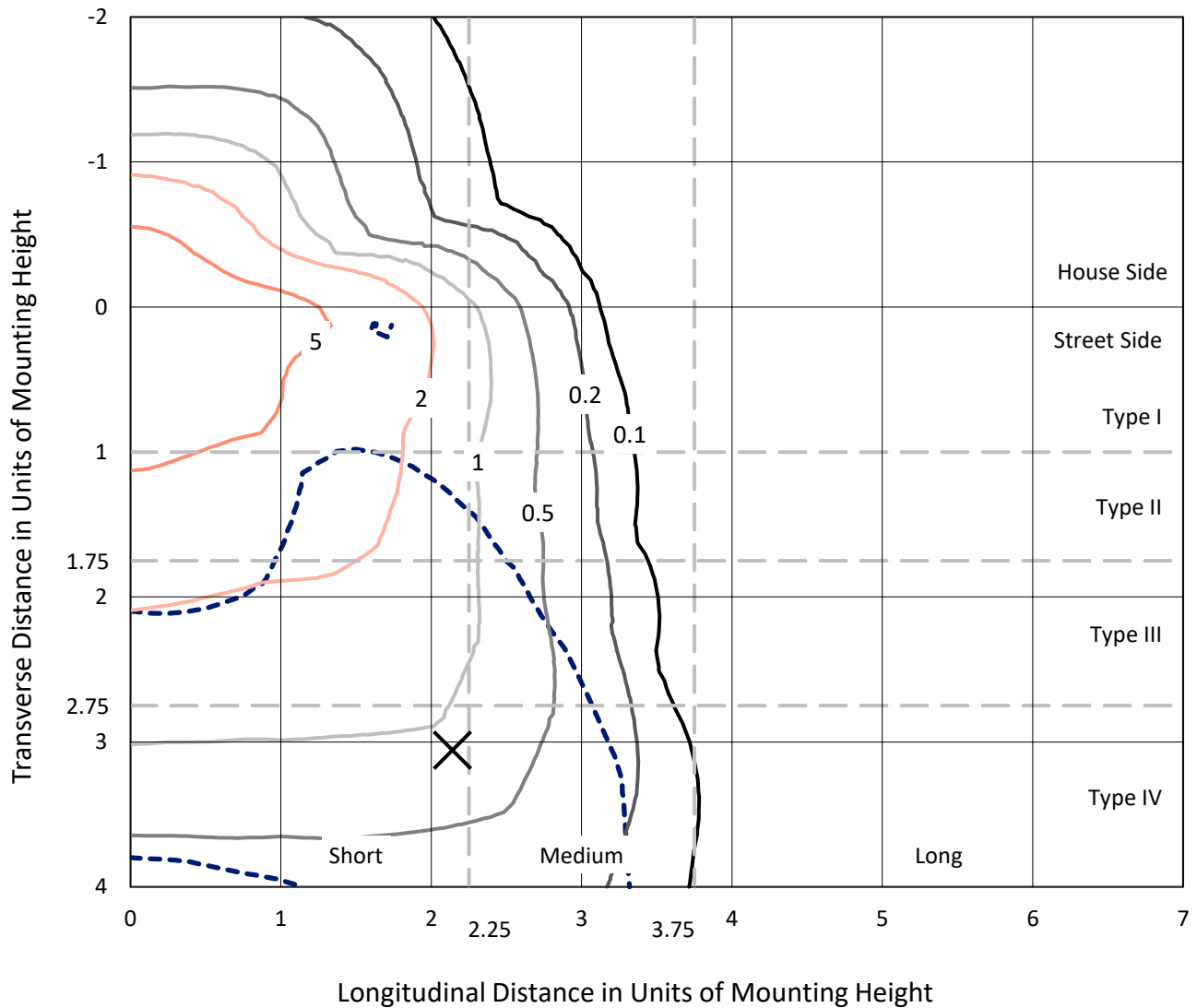
Lumens per Lamp: N/A  
Luminaire Lumens: 38557 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

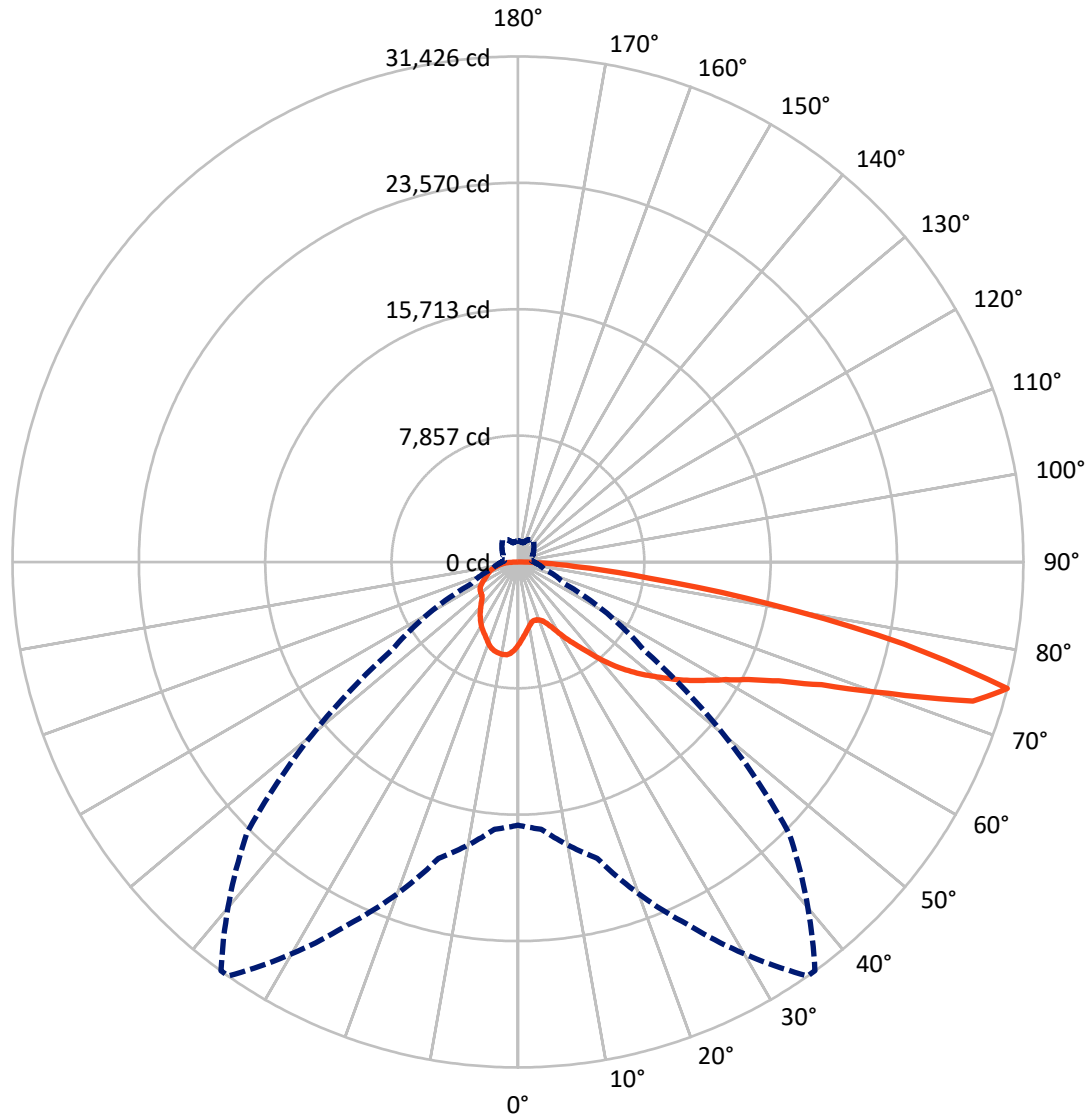
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9175.6	0.0	9175.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	29381.4	0.0	29381.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	38557.0	0.0	38557.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.5	1.3
10°-20°	1403.2	3.6
20°-30°	2356.3	6.1
30°-40°	3662.0	9.5
40°-50°	5435.4	14.1
50°-60°	7503.9	19.5
60°-70°	9103.9	23.6
70°-80°	7523.7	19.5
80°-90°	1082.1	2.8
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°	38557.0	100.0
0°-180°	38557.0	100.0

**Coefficient of Utilization**



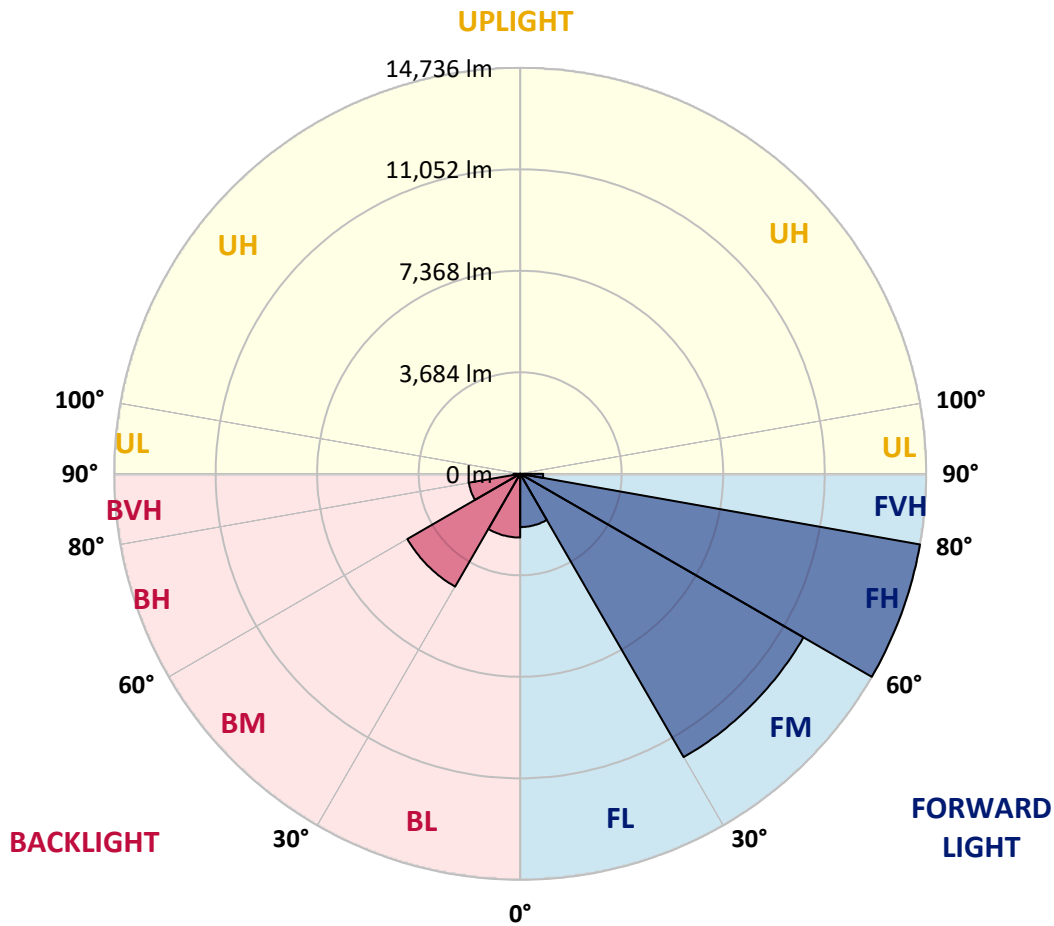
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.6	5.0			
FM (30°-60°)	11873.5	30.8			
FH (60°-80°)	14735.9	38.2			G5
FVH (80°-90°)	838.5	2.2			G5
BL (0°-30°)	2312.4	6.0	B3/2500		
BM (30°-60°)	4727.8	12.3	B3/5000		
BH (60°-80°)	1891.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	243.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0
2.5°	4737.8	4767.0	4779.5	4773.2	4804.5	4800.3	4844.1	4898.3	4973.3	5046.3
5°	4373.0	4404.3	4431.4	4456.4	4516.8	4535.6	4604.4	4708.6	4846.2	4985.8
7.5°	4033.3	4060.4	4102.0	4147.9	4250.0	4268.8	4383.4	4546.0	4737.8	4942.0
10°	3756.0	3783.1	3826.9	3879.0	4006.2	4029.1	4175.0	4391.8	4641.9	4900.4
12.5°	3637.2	3645.6	3670.6	3722.7	3833.2	3847.8	4008.3	4256.3	4548.1	4869.1
15°	3631.0	3647.7	3649.7	3676.8	3768.5	3774.8	3922.8	4168.7	4489.7	4862.8
17.5°	3693.5	3706.0	3687.3	3703.9	3781.1	3791.5	3908.2	4127.1	4471.0	4889.9
20°	3860.3	3870.7	3814.4	3791.5	3847.8	3856.1	3970.7	4154.2	4489.7	4946.2
22.5°	4214.6	4220.9	4083.3	3989.5	3993.7	3997.8	4097.9	4264.6	4562.7	5048.4
25°	4767.0	4762.8	4543.9	4362.6	4258.4	4235.4	4302.1	4443.9	4685.7	5183.8
27.5°	5413.1	5381.9	5163.0	4892.0	4664.8	4631.5	4616.9	4677.3	4860.8	5363.1
30°	6142.6	6113.5	5877.9	5523.6	5208.8	5154.7	5017.1	4985.8	5121.3	5607.0
32.5°	6943.0	6924.3	6642.9	6213.5	5792.5	5729.9	5498.6	5415.2	5521.5	5975.9
35°	7614.2	7597.5	7364.1	6922.2	6407.4	6330.2	6094.7	6000.9	6055.1	6449.1
37.5°	8220.8	8212.4	8012.3	7664.2	7132.7	7038.9	6774.2	6742.9	6732.5	7072.3
40°	8783.6	8762.7	8554.3	8370.8	7976.9	7891.4	7658.0	7630.9	7551.7	7839.3
42.5°	9406.8	9352.6	9050.4	8964.9	8858.6	8787.7	8648.1	8652.2	8477.1	8704.3
45°	9915.4	9884.1	9573.5	9523.5	9638.1	9609.0	9729.9	9761.1	9421.4	9611.0
47.5°	10461.5	10432.3	10169.7	10134.2	10444.8	10453.1	10880.4	10890.9	10342.7	10553.2
50°	11134.7	11093.0	10832.5	10876.3	11224.4	11255.6	12037.3	11966.4	11191.0	11509.9
52.5°	11578.7	11603.7	11547.4	11618.3	12093.5	12122.7	13175.3	12994.0	12031.0	12454.1
55°	11905.9	11956.0	12131.1	12293.6	13010.7	13039.8	14248.8	13971.6	12727.2	13329.6
57.5°	12327.0	12256.1	12583.4	12900.2	13881.9	13959.1	15293.0	14913.7	13344.2	14084.1
60°	12931.5	12881.4	13135.7	13604.7	14857.4	14980.4	16397.8	15762.0	13796.5	14682.3
62.5°	14157.1	14032.0	14071.6	14486.4	16087.2	16249.8	17644.2	16502.0	14021.6	14915.8
65°	15989.2	15774.5	15574.4	15862.1	17819.3	17979.8	19051.2	17083.5	13938.2	14463.5
67.5°	18296.6	18084.0	17838.1	18109.0	20370.6	20497.7	20787.5	17410.8	13281.6	12720.9
70°	20199.7	20120.5	20414.4	21529.5	24445.5	24449.7	23013.6	17139.8	11482.8	9019.1
72.5°	19947.5	19899.5	21448.2	24895.8	29581.4	29471.0	25120.9	15088.8	7735.1	4068.7
75°	16364.4	16675.0	19074.1	24835.3	31426.1	31411.5	23830.6	9592.3	3199.5	1686.3
77.5°	8775.2	9267.1	12383.3	18336.2	24533.1	24902.0	16754.2	3355.8	1373.6	1079.7
80°	2861.8	3291.2	4935.8	9335.9	15941.3	15872.5	7180.7	1317.3	940.1	765.0
82.5°	1215.2	1265.2	2205.3	4408.5	8181.2	8054.0	2286.6	756.6	660.7	523.2
85°	475.2	531.5	973.4	2038.5	3543.4	3466.3	825.4	375.2	423.1	341.8
87.5°	156.3	189.7	348.1	698.3	1102.6	1063.0	202.2	129.2	183.4	156.3
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°
5138.0	0°	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0
5152.6	2.5°	5181.8	5215.1	5254.7	5313.1	5363.1	5404.8	5448.6	5475.6	5486.1	5517.3
5160.9	5°	5219.3	5292.2	5390.2	5486.1	5579.9	5636.1	5686.2	5711.2	5734.1	5750.8
5183.8	7.5°	5281.8	5375.6	5529.8	5654.9	5734.1	5780.0	5813.3	5805.0	5813.3	5817.5
5208.8	10°	5336.0	5467.3	5650.7	5769.5	5830.0	5832.1	5823.7	5794.6	5780.0	5782.1
5246.4	12.5°	5400.6	5546.5	5744.5	5844.6	5861.3	5815.4	5780.0	5729.9	5711.2	5702.8
5302.6	15°	5488.2	5654.9	5846.7	5884.2	5842.5	5784.1	5723.7	5642.4	5600.7	5567.4
5398.5	17.5°	5594.5	5777.9	5925.9	5898.8	5809.1	5713.3	5615.3	5492.3	5406.9	5371.4
5529.8	20°	5742.4	5907.1	5986.3	5867.5	5732.0	5586.1	5419.4	5269.3	5190.1	5154.7
5696.6	22.5°	5921.7	6080.1	6044.7	5813.3	5621.6	5388.1	5179.7	5069.2	5029.6	5004.6
5911.3	25°	6136.4	6271.9	6086.4	5734.1	5440.2	5125.5	4965.0	4929.5	4910.8	4892.0
6173.9	27.5°	6415.7	6488.7	6117.6	5617.4	5156.7	4846.2	4787.8	4794.1	4787.8	4756.5
6538.7	30°	6784.6	6770.0	6146.8	5427.7	4831.6	4594.0	4598.1	4625.2	4629.4	4608.6
7047.3	32.5°	7270.3	7122.3	6161.4	5181.8	4521.0	4373.0	4377.2	4406.4	4427.2	4391.8
7712.2	35°	7858.1	7532.9	6138.5	4873.3	4281.3	4162.5	4131.2	4139.6	4145.8	4112.5
8518.8	37.5°	8543.8	7993.6	6036.3	4531.4	4083.3	3956.1	3889.4	3833.2	3799.8	3768.5
9431.8	40°	9296.3	8495.9	5848.8	4197.9	3862.3	3737.3	3637.2	3530.9	3418.4	3376.7
10398.9	42.5°	10084.2	9012.8	5621.6	3879.0	3608.1	3505.9	3399.6	3245.4	3076.5	2991.1
11403.6	45°	10901.3	9542.3	5398.5	3564.3	3347.5	3303.7	3180.8	2995.2	2811.8	2703.4
12410.4	47.5°	11701.7	10042.5	5071.3	3247.5	3103.6	3151.6	3055.7	2884.8	2680.5	2509.6
13408.8	50°	12466.6	10511.5	4535.6	2926.5	2905.6	3105.7	3014.0	2768.0	2534.6	2315.7
14388.4	52.5°	13225.4	10890.9	3849.8	2634.6	2799.3	3093.2	2959.8	2688.8	2403.3	2174.0
15309.7	55°	13869.4	11086.8	3189.1	2384.5	2645.1	2986.9	2895.2	2595.0	2217.8	1973.9
15941.3	57.5°	14236.3	10928.4	2638.8	2138.6	2432.5	2811.8	2784.7	2394.9	1996.8	1809.2
16064.3	60°	14077.9	10286.4	2188.6	1923.9	2230.3	2622.1	2593.0	2196.9	1828.0	1650.8
15405.6	62.5°	13204.5	9062.9	1832.2	1736.3	2046.9	2428.3	2401.2	2044.8	1698.8	1527.8
13656.8	65°	11445.3	7372.4	1554.9	1580.0	1861.3	2194.8	2234.4	1917.6	1596.6	1429.9
10565.7	67.5°	8729.4	5340.2	1338.2	1444.5	1680.0	1965.6	2080.2	1825.9	1511.2	1352.8
6113.5	70°	4975.4	3032.8	1154.7	1313.2	1519.5	1753.0	1961.4	1753.0	1419.5	1288.1
2290.7	72.5°	1886.4	1392.4	998.4	1181.8	1365.3	1573.7	1830.1	1638.3	1313.2	1215.2
<b>1183.9</b>	75°	<b>1006.8</b>	<b>848.3</b>	<b>840.0</b>	<b>1027.6</b>	<b>1188.1</b>	<b>1398.6</b>	<b>1665.4</b>	<b>1525.8</b>	<b>1233.9</b>	<b>1284.0</b>
819.2	77.5°	685.8	600.3	702.4	879.6	994.2	1204.8	1490.3	1354.8	1069.3	1065.1
566.9	80°	475.2	425.2	571.1	708.7	769.1	1013.0	1300.6	1163.1	871.3	812.9
350.2	82.5°	285.6	277.2	427.3	529.4	544.0	781.6	1077.6	975.5	712.9	621.1
208.4	85°	156.3	164.7	273.1	310.6	316.8	546.1	844.2	754.5	548.2	460.6
75.0	87.5°	43.8	56.3	100.0	123.0	152.2	283.5	502.3	448.1	275.1	191.8
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>
5138.0
5515.3
5755.0
5823.7
5786.2
5698.7
5577.8
5373.5
5150.5
5008.7
4892.0
4762.8
4619.0
4408.5
4135.4
3789.4
3395.4
3001.5
2695.1
2490.8
2297.0
2149.0
1953.1
1784.2
1625.8
1500.7
1402.8
1327.7
1271.5
1198.5
1325.7
981.7
777.5
625.3
464.8
191.8
0.0

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