

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: P944376

Luminaire Tested: **GALN-SB9B-750-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

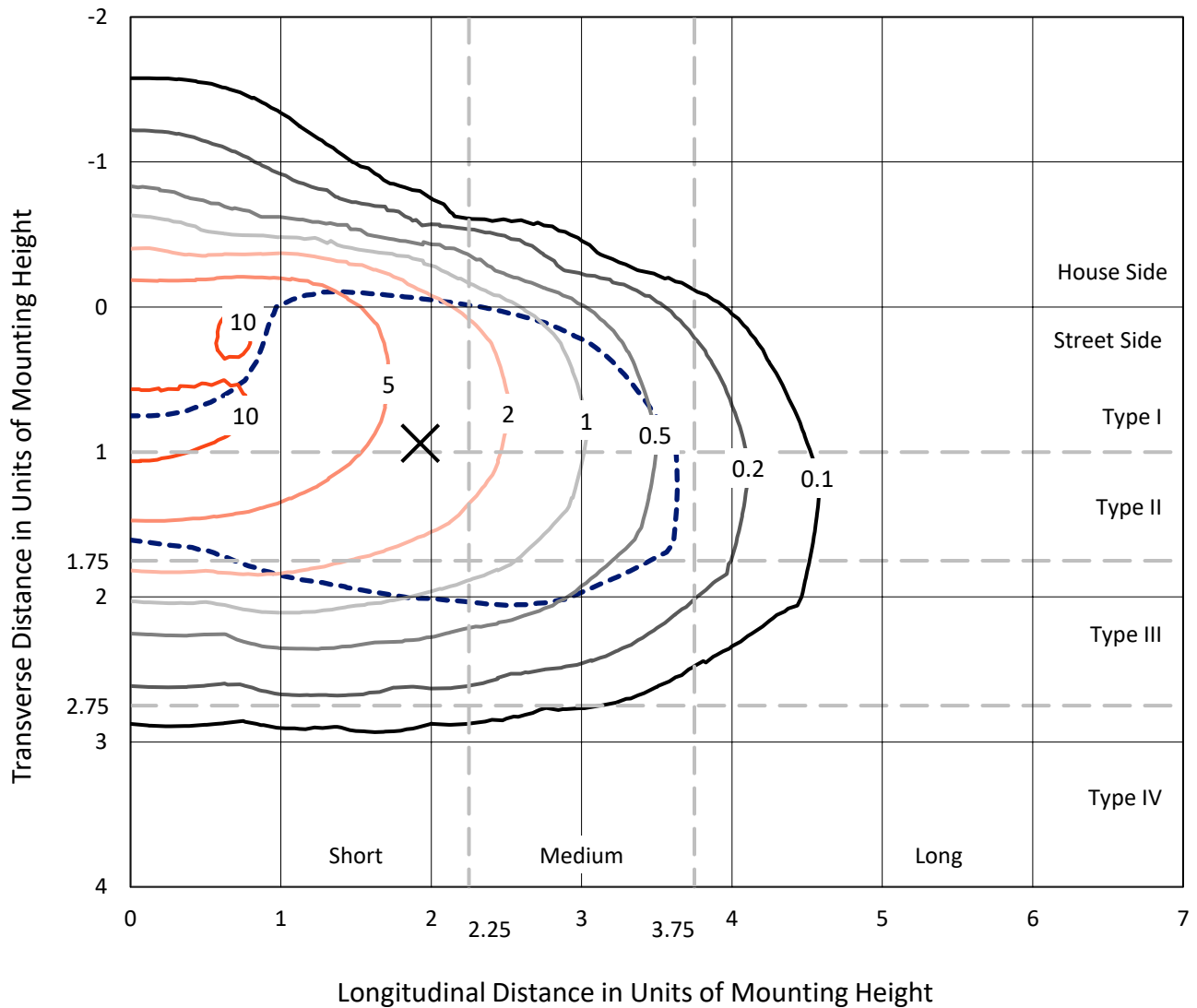
Lumens per Lamp: N/A  
Luminaire Lumens: 42557 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

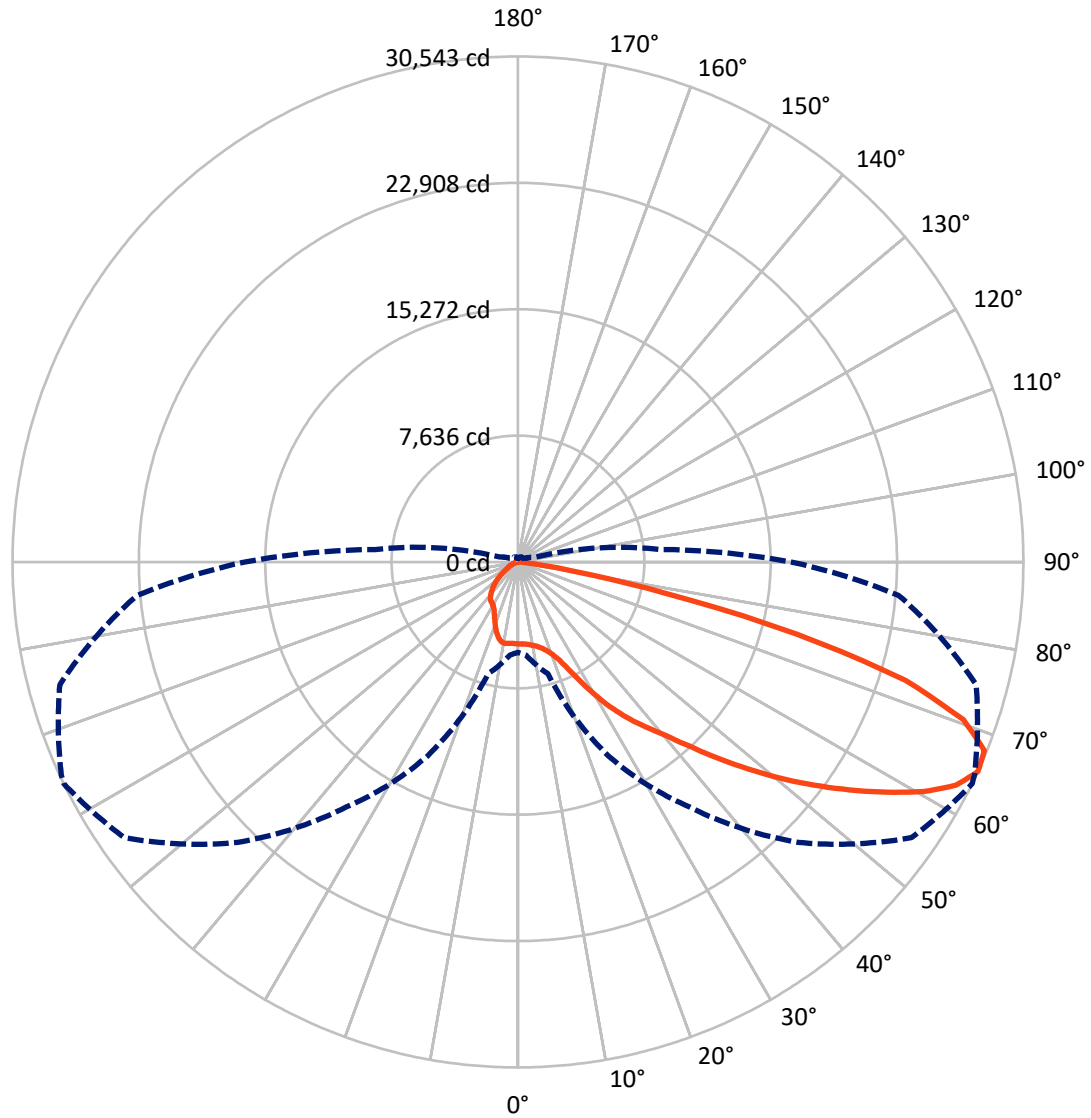
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5691.2	0.0	5691.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	36865.8	0.0	36865.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	42557.0	0.0	42557.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.7	1.1
10°-20°	1238.6	2.9
20°-30°	2347.1	5.5
30°-40°	4749.4	11.2
40°-50°	8090.6	19.0
50°-60°	11002.6	25.9
60°-70°	10332.0	24.3
70°-80°	4139.4	9.7
80°-90°	200.5	0.5
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°	42557.0	100.0
0°-180°	42557.0	100.0

**Coefficient of Utilization**



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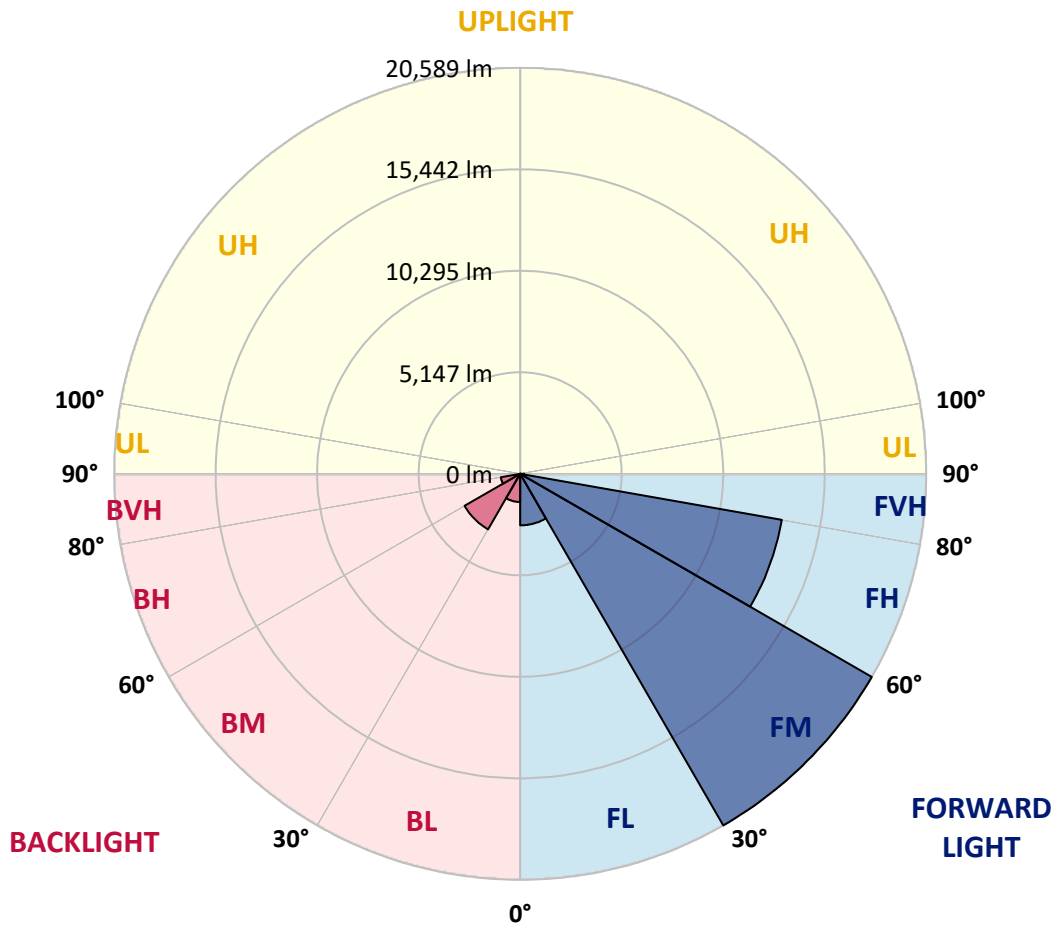
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.5	6.1			
FM (30°-60°)	20589.0	48.4			
FH (60°-80°)	13472.6	31.7			G5
FVH (80°-90°)	190.7	0.4			G2/225
BL (0°-30°)	1428.9	3.4	B3/2500		
BM (30°-60°)	3253.6	7.6	B3/5000		
BH (60°-80°)	998.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8
2.5°	4932.7	4966.9	4958.4	4949.8	4947.0	4952.7	4955.5	4952.7	4952.7	4952.7
5°	4838.6	4867.1	4867.1	4887.1	4915.6	4949.8	4975.5	4981.2	4986.9	4995.5
7.5°	4658.8	4681.6	4698.8	4764.4	4835.7	4927.0	5004.0	5044.0	5049.7	5081.1
10°	4536.1	4564.7	4593.2	4661.7	4764.4	4901.3	5032.6	5129.6	5143.8	5218.0
12.5°	4530.4	4559.0	4596.1	4670.2	4790.1	4935.6	5095.3	5235.1	5260.8	5369.2
15°	4590.4	4624.6	4658.8	4750.1	4878.5	5055.4	5226.6	5400.6	5426.3	5580.3
17.5°	4713.0	4758.7	4784.4	4875.6	5012.6	5209.4	5434.8	5634.5	5657.3	5837.1
20°	4955.5	5009.7	5018.3	5092.5	5226.6	5437.7	5705.8	5954.0	5982.6	6188.0
22.5°	5457.6	5534.7	5466.2	5503.3	5623.1	5834.2	6125.2	6439.0	6479.0	6712.9
25°	6342.0	6450.5	6273.6	6210.8	6262.2	6481.8	6847.0	7243.6	7289.2	7477.5
27.5°	8079.5	7939.7	7671.5	7409.0	7255.0	7380.5	7791.3	8282.0	8339.1	8521.7
30°	9988.1	9865.4	9503.1	8921.1	8555.9	8535.9	8915.4	9463.1	9528.8	9702.8
32.5°	11899.5	11782.6	11388.9	10672.8	10039.4	9725.6	9988.1	10595.8	10630.0	10741.3
35°	13779.6	13659.8	13266.1	12532.9	11754.0	11040.8	10989.5	11674.2	11685.6	11802.5
37.5°	15671.1	15571.3	15151.9	14432.9	13665.5	12681.2	12204.8	12695.5	12709.8	12823.9
40°	17020.5	17063.3	16775.2	16218.9	15559.8	14484.3	13568.5	13782.5	13696.9	13888.0
42.5°	18178.8	18264.4	18013.4	17733.8	17351.5	16404.3	15257.4	15220.3	15083.4	15186.1
45°	19180.2	19251.5	19026.1	18960.5	18952.0	18287.2	17103.3	16880.7	16689.6	16669.6
47.5°	19548.2	19685.2	19782.2	20001.8	20429.8	20150.2	19011.9	18666.7	18452.7	18295.8
50°	19688.0	19833.5	20164.5	20803.5	21816.3	21936.1	20911.9	20523.9	20261.5	19976.2
52.5°	19499.7	19759.3	20204.4	21280.0	22749.2	23368.3	22734.9	22395.4	22095.9	21630.9
55°	18389.9	18649.6	19559.6	21274.2	23214.2	24372.5	24458.1	24306.9	23970.3	23237.1
57.5°	16050.5	16435.7	17876.4	20549.6	23205.7	25237.0	26147.0	26255.4	25878.9	24829.0
60°	12809.6	13331.7	15089.1	18943.4	22489.6	25704.8	27627.7	28169.8	27770.4	26398.1
62.5°	8938.2	9543.0	11206.3	16427.1	20852.0	25368.2	28709.0	29710.3	29407.9	27801.7
65°	5451.9	5645.9	6986.8	12926.6	18067.6	23958.8	29042.8	30543.4	30443.5	28660.5
67.5°	3631.8	3794.4	4179.5	8864.0	14025.0	21143.0	28243.9	30397.9	30426.4	28520.7
70°	2188.2	2328.0	2579.0	5155.2	9089.4	16735.2	25770.5	28543.5	28709.0	26652.0
72.5°	901.5	995.7	1223.9	2336.5	4707.3	10621.4	20521.1	24506.6	24891.8	22409.7
75°	510.7	559.2	718.9	1172.6	2042.7	4949.8	12430.2	17397.1	17964.9	15445.7
77.5°	339.5	362.3	465.0	758.9	1149.7	1688.9	5312.1	9063.7	10147.8	8436.1
80°	228.2	248.2	319.5	507.8	747.5	724.6	1691.8	3357.9	4131.0	2898.6
82.5°	154.1	156.9	228.2	333.8	473.6	350.9	499.3	1044.2	1312.3	838.8
85°	88.4	85.6	168.3	194.0	211.1	145.5	151.2	313.8	410.8	353.8
87.5°	11.4	17.1	65.6	51.4	28.5	31.4	31.4	54.2	79.9	85.6
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°
4949.8	0°	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8	4949.8
4955.5	2.5°	4955.5	4952.7	4944.1	4935.6	4915.6	4904.2	4909.9	4904.2	4901.3	4904.2
4992.6	5°	4992.6	4984.1	4961.2	4932.7	4892.8	4844.3	4812.9	4767.2	4724.4	4698.8
5092.5	7.5°	5092.5	5083.9	5052.5	4972.6	4844.3	4641.7	4456.3	4293.6	4171.0	4099.7
5252.2	10°	5252.2	5238.0	5189.5	5012.6	4675.9	4233.7	3865.7	3560.4	3360.7	3266.6
5440.5	12.5°	5440.5	5423.4	5337.8	4975.5	4356.4	3666.0	3158.2	2818.7	2633.2	2550.5
5657.3	15°	5663.1	5640.2	5471.9	4798.6	3891.4	3038.4	2573.3	2319.4	2199.6	2125.4
5934.1	17.5°	5939.8	5899.8	5571.8	4533.3	3386.4	2559.1	2213.9	2022.7	1917.2	1845.8
6296.4	20°	6299.3	6233.6	5651.6	4216.6	2921.4	2256.7	1971.4	1811.6	1731.7	1669.0
6809.9	22.5°	6801.4	6707.2	5748.6	3874.3	2593.3	2048.4	1791.6	1674.7	1609.0	1537.7
7526.0	25°	7423.3	7312.0	5868.5	3557.6	2367.9	1868.7	1660.4	1563.4	1486.4	1403.6
8464.6	27.5°	8293.4	8093.7	6011.1	3298.0	2173.9	1714.6	1540.6	1432.2	1343.7	1275.3
9528.8	30°	9263.4	8935.4	6136.6	3141.1	1997.0	1572.0	1383.7	1275.3	1192.5	1144.0
10484.5	32.5°	10182.1	9737.0	6219.4	3072.6	1837.3	1409.3	1212.5	1095.5	1032.8	1018.5
11420.2	35°	11049.4	10461.7	6210.8	3007.0	1694.6	1246.7	1044.2	924.3	875.8	884.4
12427.3	37.5°	12047.9	11234.8	6150.9	2904.3	1577.7	1098.4	898.7	793.1	750.3	753.2
13651.2	40°	13209.0	12127.8	6113.8	2710.3	1449.3	961.4	778.8	693.3	661.9	650.5
14940.8	42.5°	14447.2	12992.2	6119.5	2490.6	1289.5	838.8	696.1	624.8	596.3	587.7
16375.8	45°	15691.1	13816.7	6128.1	2262.4	1121.2	744.6	636.2	576.3	559.2	547.8
17830.8	47.5°	16860.8	14518.5	5968.3	2017.0	955.7	673.3	587.7	547.8	533.5	519.2
19291.5	50°	17950.6	14986.4	5583.2	1731.7	824.5	616.2	550.6	522.1	507.8	493.6
20615.2	52.5°	18797.9	15060.6	4947.0	1437.9	733.2	573.4	527.8	502.1	485.0	470.7
21685.1	55°	19174.5	14595.6	4042.6	1164.0	661.9	536.3	505.0	479.3	459.3	445.1
22526.7	57.5°	19077.5	13617.0	3152.5	935.8	593.4	499.3	476.4	459.3	436.5	413.7
23208.5	60°	18601.1	12307.5	2376.5	778.8	530.6	459.3	445.1	430.8	399.4	365.2
23471.0	62.5°	17776.6	10661.4	1694.6	644.8	462.2	413.7	408.0	396.6	350.9	288.1
23083.0	65°	16515.6	8661.5	1141.2	536.3	396.6	362.3	365.2	345.2	285.3	214.0
21662.2	67.5°	14672.6	6333.5	730.3	439.4	330.9	302.4	305.3	293.9	242.5	182.6
18969.1	70°	12324.6	4193.8	476.4	333.8	265.3	233.9	251.1	253.9	205.4	148.4
14558.5	72.5°	9035.2	2476.3	333.8	248.2	194.0	162.6	205.4	211.1	165.5	111.3
8758.5	75°	5149.5	1175.4	251.1	179.7	119.8	114.1	159.8	159.8	114.1	74.2
3791.5	77.5°	2162.5	490.7	176.9	117.0	68.5	65.6	108.4	99.9	57.1	34.2
924.3	80°	624.8	219.7	94.1	57.1	28.5	25.7	42.8	31.4	14.3	5.7
350.9	82.5°	245.4	97.0	37.1	22.8	11.4	11.4	5.7	0.0	0.0	0.0
199.7	85°	145.5	39.9	17.1	8.6	2.9	0.0	0.0	0.0	0.0	0.0
42.8	87.5°	37.1	8.6	5.7	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>
4949.8
4915.6
4704.5
4102.5
3258.0
2542.0
2128.3
1840.1
1657.5
1526.3
1395.1
1261.0
1135.5
1027.1
884.4
764.6
647.6
584.8
547.8
519.2
493.6
467.9
442.2
410.8
359.5
282.4
208.3
174.0
142.6
105.6
68.5
34.2
5.7
0.0
0.0
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0.0

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