

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: P955639

Luminaire Tested: **GALN-SB8C-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

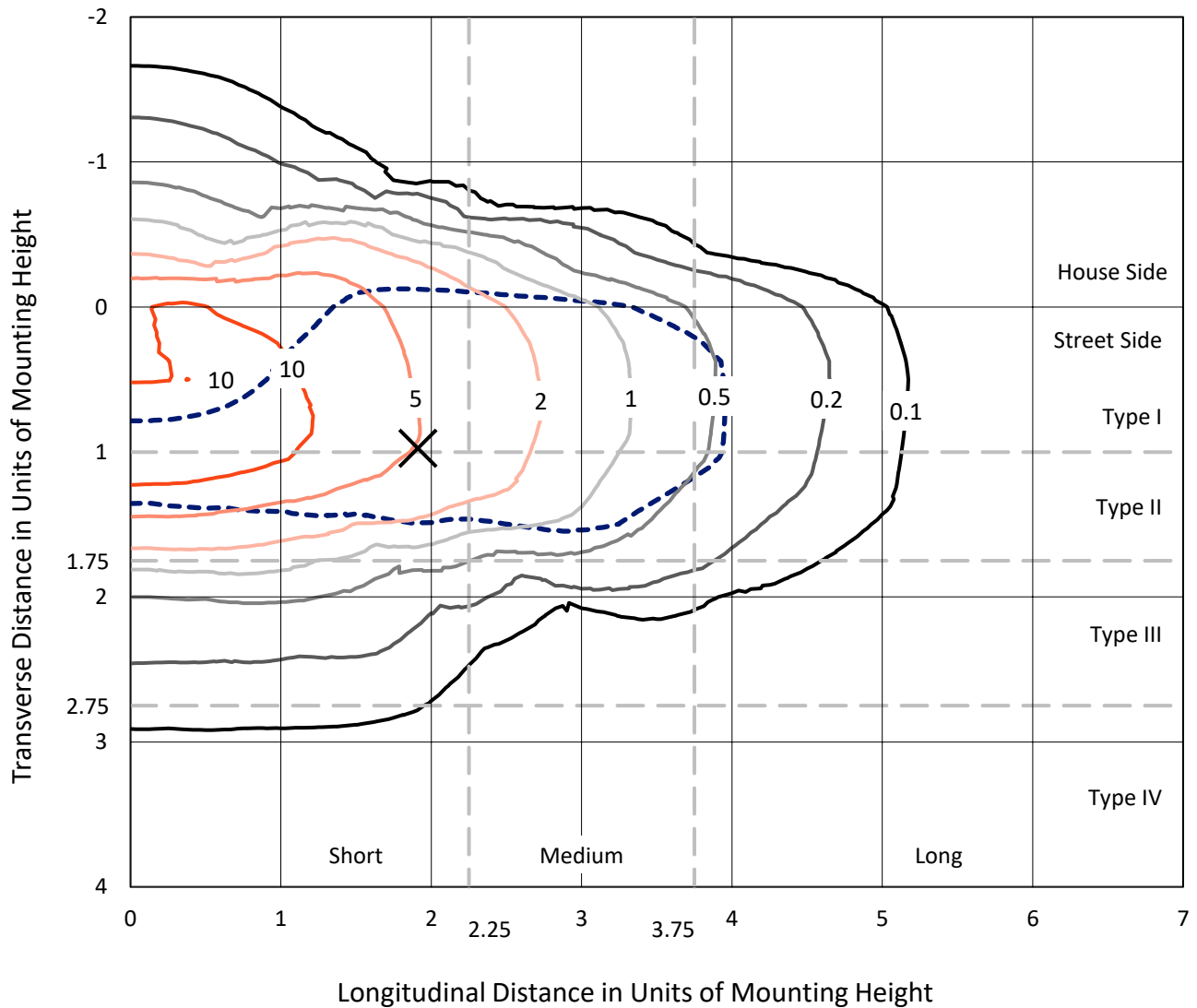
Lumens per Lamp: N/A  
Luminaire Lumens: 48964 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

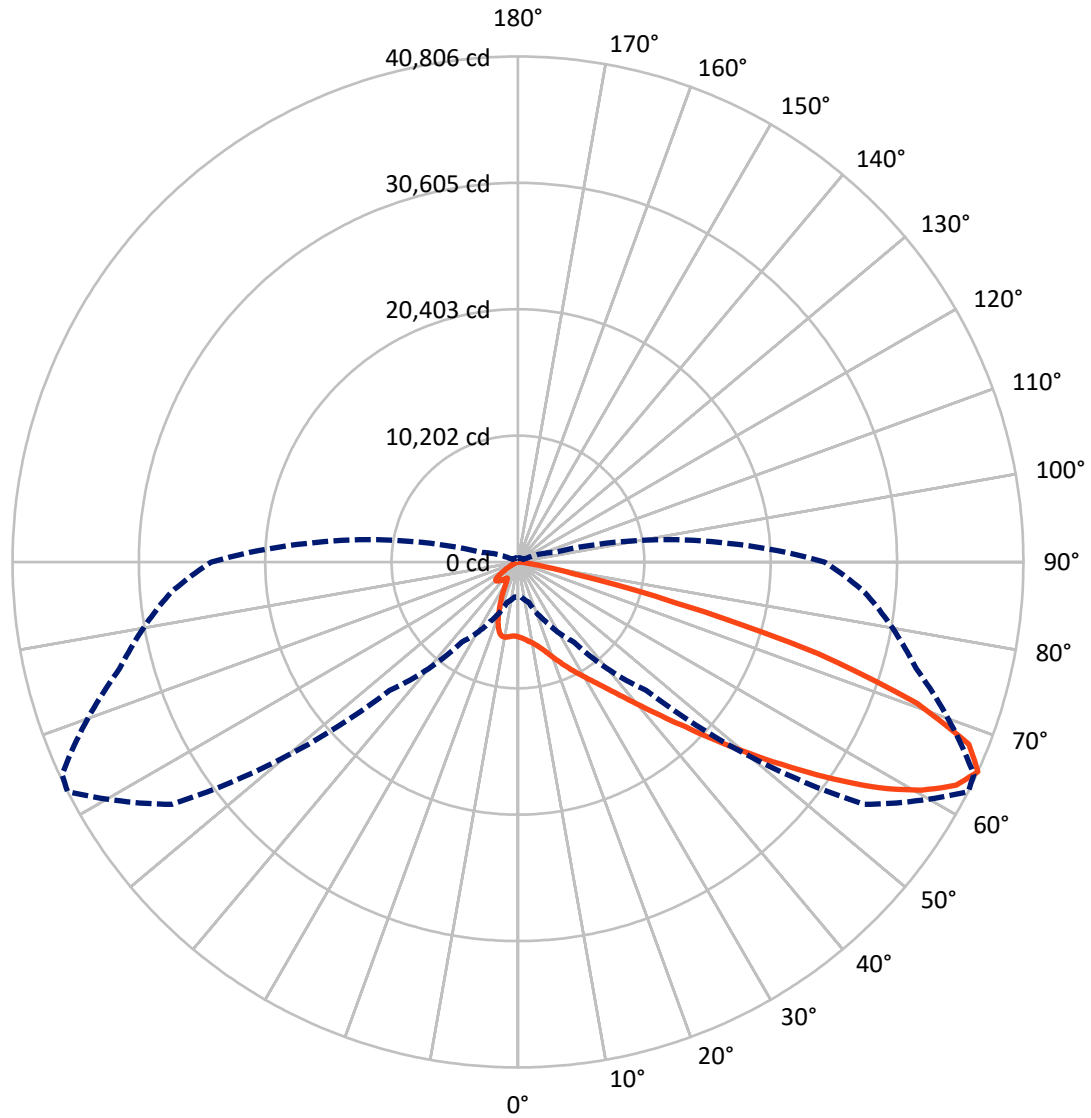
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7197.3	0.0	7197.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	41766.7	0.0	41766.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	48964.0	0.0	48964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.4	1.2
10°-20°	1579.8	3.2
20°-30°	2750.8	5.6
30°-40°	4958.1	10.1
40°-50°	9833.5	20.1
50°-60°	13394.8	27.4
60°-70°	10691.6	21.8
70°-80°	4838.2	9.9
80°-90°	347.8	0.7
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°	48964.0	100.0
0°-180°	48964.0	100.0

**Coefficient of Utilization**



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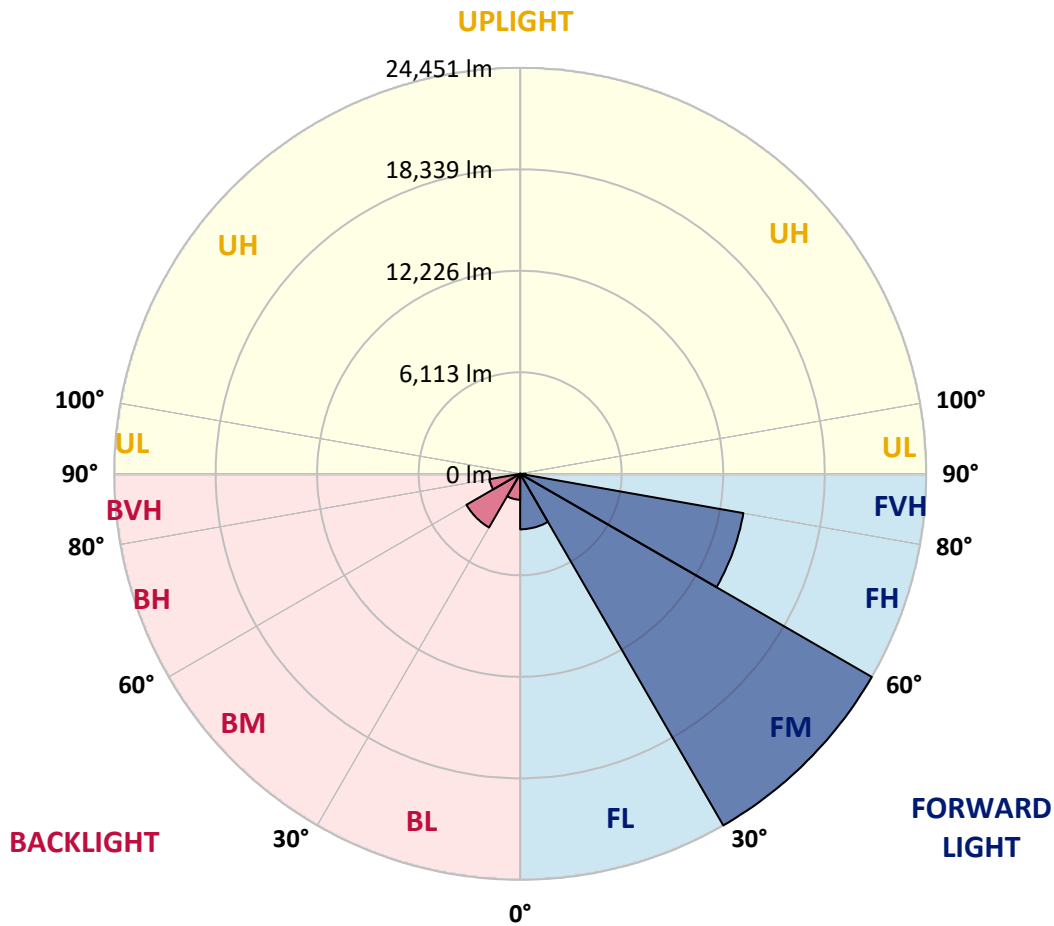
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3342.4	6.8			
FM (30°-60°)	24451.4	49.9			
FH (60°-80°)	13650.9	27.9			G5
FVH (80°-90°)	322.0	0.7			G3/500
BL (0°-30°)	1557.6	3.2	B3/2500		
BM (30°-60°)	3735.0	7.6	B3/5000		
BH (60°-80°)	1878.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	25.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1
2.5°	6184.6	6167.7	6191.3	6181.2	6174.5	6161.0	6154.2	6147.5	6134.0	6123.9
5°	6201.4	6191.3	6214.9	6235.1	6255.3	6275.5	6285.6	6299.1	6285.6	6258.7
7.5°	6059.9	6053.2	6103.7	6164.3	6255.3	6332.8	6417.0	6464.1	6467.5	6457.4
10°	6049.8	6033.0	6083.5	6157.6	6275.5	6413.6	6561.8	6662.9	6676.4	6720.2
12.5°	6208.1	6191.3	6262.0	6342.9	6464.1	6609.0	6790.9	6932.4	6952.6	7013.2
15°	6474.3	6450.7	6531.5	6635.9	6790.9	6955.9	7147.9	7276.0	7292.8	7366.9
17.5°	6784.2	6760.6	6854.9	6966.1	7134.5	7360.2	7582.5	7724.0	7744.2	7791.3
20°	7181.6	7151.3	7225.4	7326.5	7505.0	7774.5	8040.6	8242.7	8239.3	8239.3
22.5°	7643.1	7596.0	7660.0	7740.8	7909.2	8236.0	8589.7	8828.8	8828.8	8734.5
25°	8138.3	8091.1	8161.9	8236.0	8384.2	8754.7	9169.0	9465.5	9478.9	9317.3
27.5°	8758.1	8697.5	8751.4	8838.9	8926.5	9303.8	9795.6	10139.2	10145.9	9896.6
30°	9950.5	9778.7	9610.3	9516.0	9556.4	9930.3	10455.8	10836.5	10870.1	10526.6
32.5°	12133.3	12099.6	11506.8	10732.0	10327.8	10604.0	11193.5	11651.6	11671.8	11230.6
35°	15525.4	15485.0	14531.7	13056.3	11739.2	11506.8	12089.5	12631.9	12618.4	12119.9
37.5°	19574.3	19537.3	18280.8	16306.9	14174.6	12871.0	13244.9	13814.2	13898.4	13244.9
40°	23033.8	22895.7	22100.7	20197.5	17408.4	15134.7	14888.8	15266.0	15353.6	14578.9
42.5°	25654.5	25536.6	25132.4	23943.3	21322.6	18482.9	16825.6	16970.5	17068.2	16138.5
45°	27012.0	26985.0	27146.7	27035.6	25310.9	22592.5	19594.5	18991.6	19028.6	17866.5
47.5°	27204.0	27190.5	27928.2	28972.4	28740.0	27227.6	23148.3	21511.2	21379.8	19816.9
50°	26072.2	26045.2	27460.0	29417.1	31030.6	31121.5	27183.8	24350.9	24061.2	21834.6
52.5°	22457.8	22451.0	24775.3	28032.6	31835.7	34530.5	31172.1	27470.1	26985.0	23970.2
55°	17280.4	17405.0	20069.5	23919.7	30367.0	36170.9	34752.8	30932.9	30188.5	26119.3
57.5°	12241.1	12423.0	15057.2	18486.3	25812.8	35200.8	37174.7	34402.5	33600.8	28261.7
60°	6575.3	6737.0	9374.5	13467.2	19203.8	31583.0	38451.4	37413.9	36656.0	30296.3
62.5°	3917.6	3971.5	5062.9	8694.1	12988.9	24128.5	37909.1	39707.8	39084.7	32004.1
65°	2812.7	2822.8	3371.9	5308.8	7885.7	14659.7	34106.0	40806.0	40614.0	33290.9
67.5°	2368.1	2361.3	2590.4	3526.8	5372.8	7343.3	26139.5	39253.1	40068.3	34106.0
70°	2031.2	2041.3	2310.8	2583.6	4038.8	4156.7	12995.7	34176.8	35914.9	34321.6
72.5°	1512.5	1546.1	1795.4	2354.6	3048.5	2859.9	4486.8	25341.2	28484.0	32337.6
75°	1067.8	1084.7	1263.2	1980.7	2273.7	2081.7	2290.6	13100.1	17128.8	24792.1
77.5°	821.9	852.2	956.7	1384.5	2240.1	1461.9	1401.3	4534.0	6966.1	14976.3
80°	444.6	498.5	690.5	1000.4	1573.1	1034.1	693.9	1805.5	2361.3	7003.1
82.5°	229.1	256.0	481.7	720.9	896.0	902.8	343.6	751.2	973.5	2162.6
85°	90.9	111.2	323.4	397.5	461.5	444.6	155.0	303.2	350.3	599.6
87.5°	20.2	33.7	117.9	90.9	87.6	94.3	37.1	70.7	67.4	70.7
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°
6043.1	0°	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1
6083.5	2.5°	6080.1	6066.7	6029.6	5989.2	5942.0	5915.1	5898.2	5894.9	5871.3	5854.4
6218.2	5°	6181.2	6167.7	6097.0	6012.8	5921.8	5851.1	5783.7	5723.1	5635.5	5618.7
6413.6	7.5°	6383.3	6346.2	6231.7	6117.2	5945.4	5739.9	5490.6	5204.3	4948.3	4870.8
6673.0	10°	6632.6	6582.0	6437.2	6235.1	5854.4	5295.3	4692.3	4133.1	3688.5	3563.9
6979.5	12.5°	6915.5	6871.7	6679.7	6305.8	5473.8	4459.9	3536.9	2843.0	2411.8	2304.1
7306.3	15°	7252.4	7188.4	6922.3	6198.0	4793.4	3388.7	2428.7	2017.7	1862.8	1842.6
7680.2	17.5°	7609.4	7505.0	7137.8	5810.7	3877.1	2408.5	1876.3	1758.4	1691.0	1670.8
8057.4	20°	7936.2	7801.4	7265.8	5224.5	2896.9	1876.3	1680.9	1603.4	1542.8	1519.2
8434.7	22.5°	8262.9	8070.9	7265.8	4426.2	2172.7	1664.0	1542.8	1472.0	1401.3	1371.0
8838.9	25°	8603.1	8347.1	7137.8	3536.9	1748.2	1525.9	1411.4	1333.9	1273.3	1236.2
9222.9	27.5°	8933.3	8579.6	6844.8	2694.8	1556.2	1404.7	1290.1	1216.0	1158.8	1131.8
9640.6	30°	9246.5	8808.6	6433.8	2044.7	1431.6	1286.8	1179.0	1115.0	1057.7	1030.8
10183.0	32.5°	9671.0	9098.3	5995.9	1677.5	1323.8	1175.6	1077.9	1017.3	966.8	946.5
10887.0	35°	10260.4	9526.1	5618.7	1647.2	1232.9	1084.7	987.0	929.7	879.2	862.3
11796.5	37.5°	11095.8	10216.6	5419.9	1849.3	1158.8	1003.8	912.9	852.2	805.1	791.6
12951.9	40°	12126.6	11153.1	5527.7	2051.4	1108.2	933.1	845.5	784.9	744.4	727.6
14279.1	42.5°	13349.4	12308.5	6123.9	2206.4	1074.6	872.4	781.5	714.1	687.2	680.4
15784.8	45°	14754.0	13578.4	7036.8	2371.4	1020.7	815.2	717.5	667.0	646.8	643.4
17421.9	47.5°	16350.7	14973.0	8094.5	2576.9	966.8	761.3	667.0	633.3	616.4	609.7
19129.7	50°	17933.9	16377.6	9182.5	2691.4	923.0	710.8	626.5	599.6	586.1	582.7
20935.2	52.5°	19591.2	17822.7	10061.7	2583.6	885.9	670.3	592.9	572.6	559.2	555.8
22599.2	55°	21171.0	18991.6	10213.3	2192.9	811.8	629.9	555.8	545.7	528.9	528.9
24286.9	57.5°	22531.9	19577.7	9142.1	1610.1	737.7	569.3	518.7	508.6	495.2	491.8
25809.4	60°	23781.6	19409.3	7057.0	1084.7	656.9	508.6	471.6	464.9	451.4	434.5
27133.2	62.5°	24485.6	18668.2	4827.1	707.4	576.0	444.6	417.7	414.3	384.0	350.3
28113.5	65°	24751.7	17145.6	3011.4	515.4	481.7	380.6	360.4	353.7	309.9	272.8
28669.3	67.5°	24519.3	14639.5	1519.2	407.6	380.6	316.6	296.4	296.4	266.1	232.4
28635.6	70°	23589.6	10974.6	640.0	326.7	293.1	242.5	242.5	256.0	225.7	188.6
27150.1	72.5°	21571.9	7383.7	340.2	249.3	219.0	171.8	198.7	208.8	178.5	141.5
22222.0	75°	17149.0	4503.7	235.8	185.3	138.1	121.3	151.6	158.3	121.3	94.3
15235.7	77.5°	11729.1	2587.0	158.3	117.9	87.6	70.7	104.4	97.7	64.0	43.8
5874.7	80°	5150.4	1077.9	90.9	53.9	33.7	26.9	37.1	26.9	20.2	13.5
805.1	82.5°	603.0	252.6	33.7	20.2	13.5	6.7	3.4	0.0	0.0	0.0
245.9	85°	124.6	30.3	16.8	6.7	3.4	0.0	0.0	0.0	0.0	0.0
43.8	87.5°	23.6	6.7	3.4	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°
6043.1
5871.3
5611.9
4833.8
3516.7
2273.7
1822.4
1660.7
1505.7
1354.1
1222.8
1131.8
1034.1
946.5
862.3
788.2
724.2
680.4
640.0
609.7
582.7
555.8
525.5
488.4
431.2
343.6
269.5
229.1
185.3
141.5
90.9
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