

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: P957634

Luminaire Tested: **GALN-SB9D-935-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957634  
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-SB9D-935-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

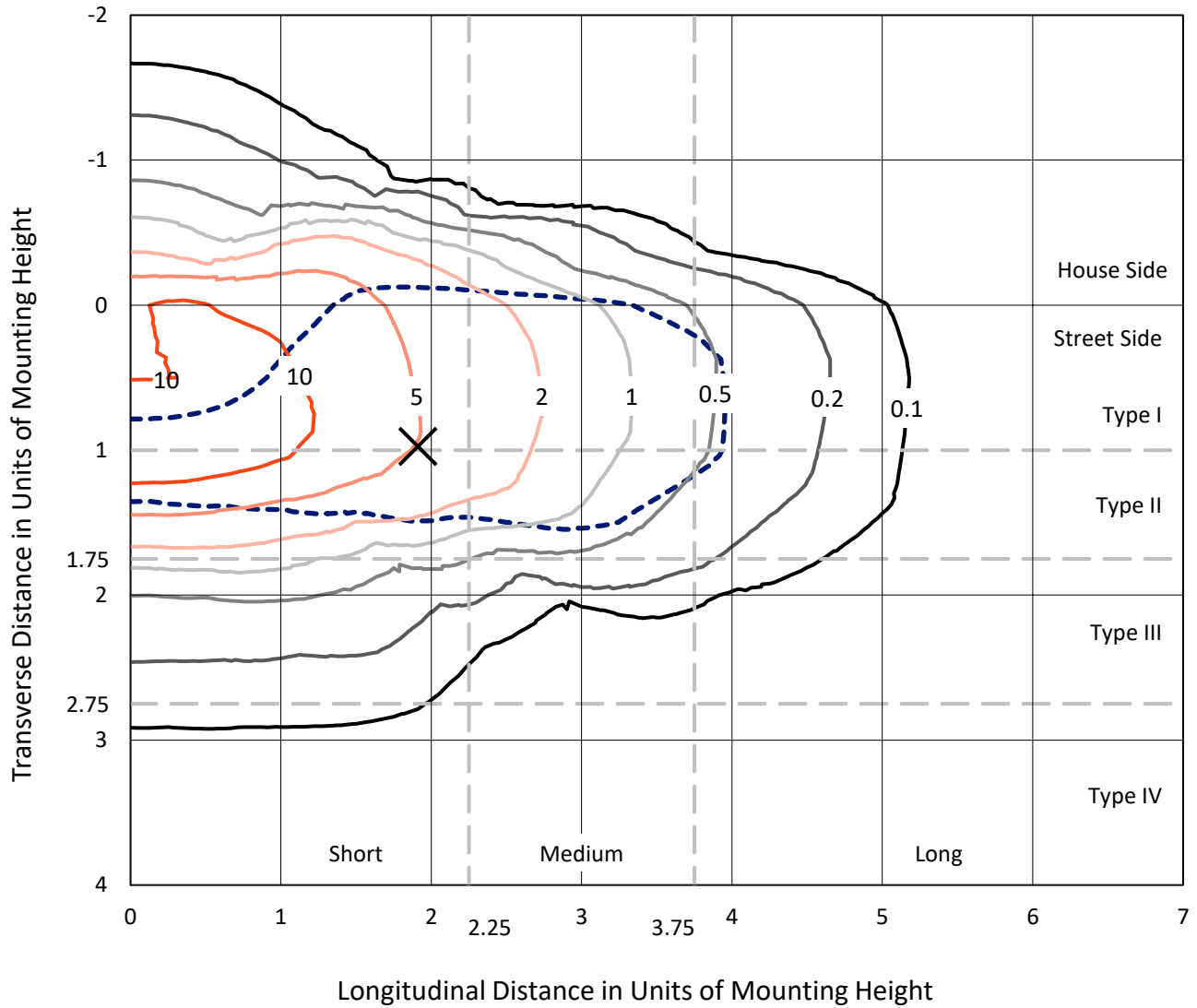
Lumens per Lamp: N/A  
Luminaire Lumens: 49277 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

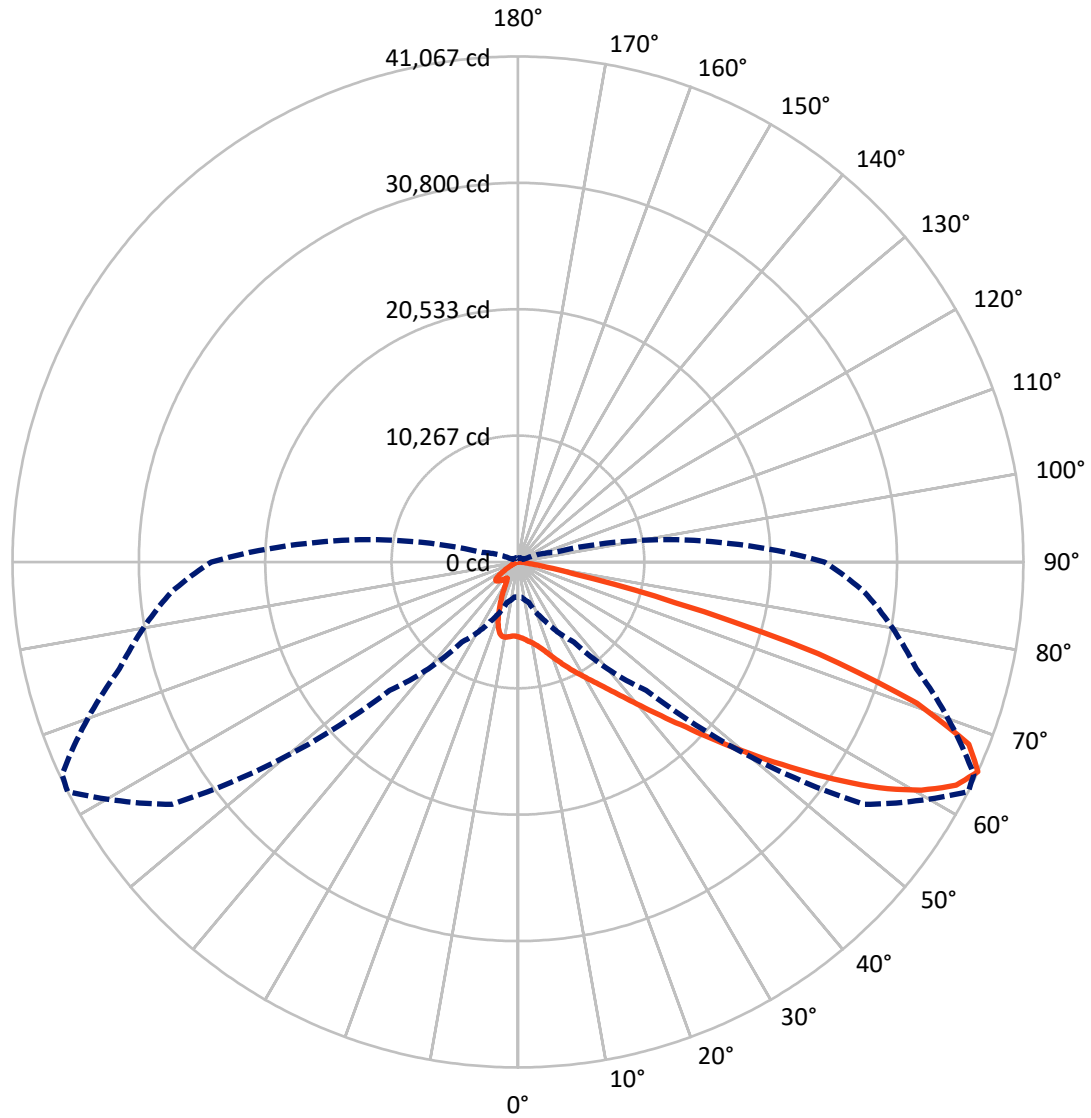
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	7243.3	0.0	7243.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	42033.7	0.0	42033.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	49277.0	0.0	49277.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.0	1.2
10°-20°	1589.9	3.2
20°-30°	2768.4	5.6
30°-40°	4989.8	10.1
40°-50°	9896.3	20.1
50°-60°	13480.4	27.4
60°-70°	10760.0	21.8
70°-80°	4869.1	9.9
80°-90°	350.0	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°	49277.0	100.0
0°-180°	49277.0	100.0

**Coefficient of Utilization**



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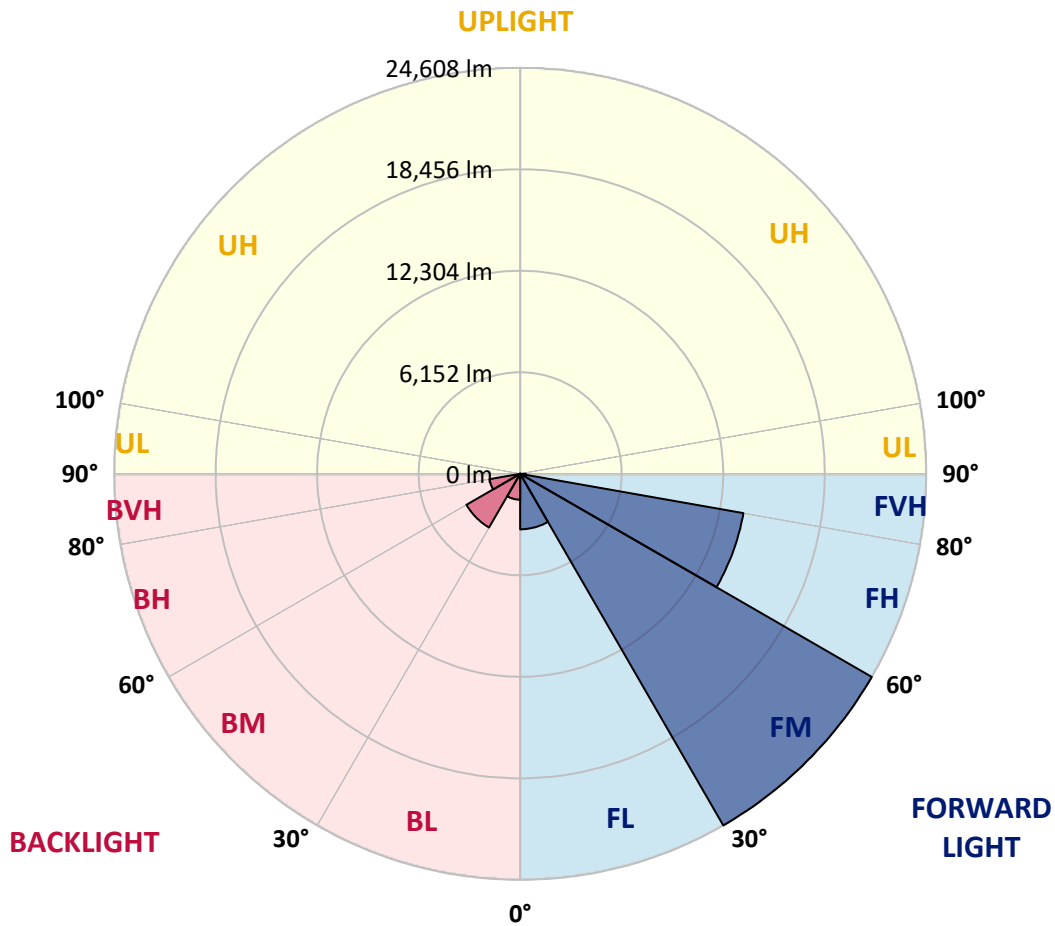
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3363.8	6.8			
FM (30°-60°)	24607.7	49.9			
FH (60°-80°)	13738.2	27.9			G5
FVH (80°-90°)	324.0	0.7			G3/500
BL (0°-30°)	1567.6	3.2	B3/2500		
BM (30°-60°)	3758.8	7.6	B3/5000		
BH (60°-80°)	1890.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	26.0	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°	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7
2.5°	6224.1	6207.1	6230.9	6220.7	6213.9	6200.4	6193.6	6186.8	6173.2	6163.1
5°	6241.0	6230.9	6254.6	6274.9	6295.3	6315.6	6325.8	6339.4	6325.8	6298.7
7.5°	6098.7	6091.9	6142.7	6203.8	6295.3	6373.3	6458.0	6505.5	6508.9	6498.7
10°	6088.5	6071.5	6122.4	6197.0	6315.6	6454.6	6603.8	6705.5	6719.0	6763.1
12.5°	6247.8	6230.9	6302.1	6383.4	6505.5	6651.2	6834.3	6976.7	6997.0	7058.0
15°	6515.6	6491.9	6573.3	6678.4	6834.3	7000.4	7193.6	7322.5	7339.4	7414.0
17.5°	6827.5	6803.8	6898.7	7010.6	7180.1	7407.2	7631.0	7773.3	7793.7	7841.1
20°	7227.5	7197.0	7271.6	7373.3	7553.0	7824.2	8092.0	8295.4	8292.0	8292.0
22.5°	7692.0	7644.5	7708.9	7790.3	7959.8	8288.6	8644.6	8885.3	8885.3	8790.3
25°	8190.3	8142.9	8214.0	8288.6	8437.8	8810.7	9227.7	9526.0	9539.5	9376.8
27.5°	8814.1	8753.1	8807.3	8895.4	8983.6	9363.3	9858.2	10204.0	10210.8	9959.9
30°	10014.1	9841.3	9671.8	9576.8	9617.5	9993.8	10522.7	10905.7	10939.6	10593.8
32.5°	12210.9	12177.0	11580.3	10800.6	10393.8	10671.8	11265.1	11726.1	11746.5	11302.4
35°	15624.6	15584.0	14624.6	13139.8	11814.3	11580.3	12166.8	12712.6	12699.1	12197.3
37.5°	19699.5	19662.2	18397.7	16411.1	14265.2	12953.3	13329.6	13902.5	13987.3	13329.6
40°	23181.0	23042.0	22242.0	20326.6	17519.7	15231.4	14983.9	15363.6	15451.8	14672.0
42.5°	25818.5	25699.8	25293.0	24096.3	21458.9	18601.1	16933.2	17079.0	17177.3	16241.6
45°	27184.6	27157.5	27320.2	27208.4	25472.7	22736.9	19719.8	19113.0	19150.3	17980.7
47.5°	27377.9	27364.3	28106.7	29157.6	28923.7	27401.6	23296.3	21648.7	21516.5	19943.5
50°	26238.8	26211.7	27635.5	29605.1	31229.0	31320.5	27357.5	24506.5	24215.0	21974.2
52.5°	22601.3	22594.5	24933.7	28211.8	32039.2	34751.2	31371.3	27645.7	27157.5	24123.4
55°	17390.9	17516.3	20197.8	24072.6	30561.1	36402.1	34974.9	31130.6	30381.4	26286.3
57.5°	12319.4	12502.4	15153.4	18604.5	25977.8	35425.8	37412.4	34622.4	33815.5	28442.3
60°	6617.3	6780.1	9434.5	13553.3	19326.6	31784.9	38697.2	37653.1	36890.3	30489.9
62.5°	3942.6	3996.8	5095.2	8749.7	13072.0	24282.8	38151.4	39961.7	39334.5	32208.7
65°	2830.7	2840.8	3393.4	5342.7	7936.1	14753.4	34324.0	41066.8	40873.6	33503.7
67.5°	2383.2	2376.4	2606.9	3549.4	5407.1	7390.3	26306.6	39504.0	40324.4	34324.0
70°	2044.2	2054.4	2325.6	2600.2	4064.6	4183.3	13078.7	34395.2	36144.5	34541.0
72.5°	1522.1	1556.0	1806.9	2369.6	3068.0	2878.1	4515.5	25503.2	28666.1	32544.3
75°	1074.6	1091.6	1271.3	1993.3	2288.3	2095.0	2305.2	13183.8	17238.3	24950.6
77.5°	827.2	857.7	962.8	1393.3	2254.4	1471.3	1410.3	4563.0	7010.6	15072.1
80°	447.5	501.7	695.0	1006.8	1583.1	1040.7	698.3	1817.1	2376.4	7047.9
82.5°	230.5	257.6	484.8	725.5	901.7	908.5	345.8	756.0	979.7	2176.4
85°	91.5	111.9	325.4	400.0	464.4	447.5	155.9	305.1	352.6	603.4
87.5°	20.3	33.9	118.7	91.5	88.1	94.9	37.3	71.2	67.8	71.2
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°
6081.7	0°	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7
6122.4	2.5°	6119.0	6105.4	6068.2	6027.5	5980.0	5952.9	5935.9	5932.6	5908.8	5891.9
6258.0	5°	6220.7	6207.1	6136.0	6051.2	5959.7	5888.5	5820.7	5759.7	5671.5	5654.6
6454.6	7.5°	6424.1	6386.8	6271.6	6156.3	5983.4	5776.6	5525.7	5237.6	4980.0	4902.0
6715.6	10°	6675.0	6624.1	6478.3	6274.9	5891.9	5329.1	4722.3	4159.6	3712.1	3586.7
7024.1	12.5°	6959.7	6915.7	6722.4	6346.1	5508.8	4488.4	3559.5	2861.2	2427.3	2318.8
7353.0	15°	7298.7	7234.3	6966.5	6237.7	4824.0	3410.4	2444.2	2030.6	1874.7	1854.3
7729.3	17.5°	7658.1	7553.0	7183.5	5847.8	3901.9	2423.9	1888.2	1769.6	1701.8	1681.5
8109.0	20°	7986.9	7851.3	7312.3	5257.9	2915.4	1888.2	1691.6	1613.7	1552.6	1528.9
8488.6	22.5°	8315.7	8122.5	7312.3	4454.5	2186.6	1674.7	1552.6	1481.4	1410.3	1379.7
8895.4	25°	8658.1	8400.5	7183.5	3559.5	1759.4	1535.7	1420.4	1342.5	1281.4	1244.1
9281.9	27.5°	8990.4	8634.4	6888.5	2712.0	1566.2	1413.6	1298.4	1223.8	1166.2	1139.0
9702.3	30°	9305.6	8864.9	6475.0	2057.7	1440.8	1295.0	1186.5	1122.1	1064.5	1037.3
10248.1	32.5°	9732.8	9156.5	6034.3	1688.2	1332.3	1183.1	1084.8	1023.8	972.9	952.6
10956.6	35°	10326.0	9587.0	5654.6	1657.7	1240.8	1091.6	993.3	935.6	884.8	867.8
11871.9	37.5°	11166.8	10282.0	5454.6	1861.1	1166.2	1010.2	918.7	857.7	810.2	796.7
13034.7	40°	12204.1	11224.4	5563.0	2064.5	1115.3	939.0	850.9	789.9	749.2	732.2
14370.3	42.5°	13434.7	12387.2	6163.1	2220.5	1081.4	878.0	786.5	718.7	691.6	684.8
15885.7	45°	14848.3	13665.2	7081.8	2386.6	1027.2	820.4	722.1	671.2	650.9	647.5
17533.2	47.5°	16455.2	15068.7	8146.2	2593.4	972.9	766.1	671.2	637.3	620.4	613.6
19252.0	50°	18048.5	16482.3	9241.2	2708.6	928.9	715.3	630.5	603.4	589.9	586.5
21069.0	52.5°	19716.4	17936.6	10126.0	2600.2	891.6	674.6	596.6	576.3	562.7	559.4
22743.7	55°	21306.3	19113.0	10278.6	2206.9	817.0	633.9	559.4	549.2	532.2	532.2
24442.1	57.5°	22675.9	19702.9	9200.5	1620.4	742.4	572.9	522.1	511.9	498.3	494.9
25974.4	60°	23933.6	19533.3	7102.1	1091.6	661.1	511.9	474.6	467.8	454.3	437.3
27306.7	62.5°	24642.1	18787.5	4857.9	711.9	579.7	447.5	420.4	417.0	386.5	352.6
28293.2	65°	24909.9	17255.2	3030.7	518.7	484.8	383.1	362.7	356.0	311.9	274.6
28852.5	67.5°	24676.0	14733.1	1528.9	410.2	383.1	318.7	298.3	298.3	267.8	233.9
28818.6	70°	23740.4	11044.7	644.1	328.8	294.9	244.1	244.1	257.6	227.1	189.8
27323.6	72.5°	21709.7	7430.9	342.4	250.9	220.4	172.9	200.0	210.2	179.7	142.4
22364.0	75°	17258.6	4532.5	237.3	186.5	139.0	122.0	152.6	159.3	122.0	94.9
15333.1	77.5°	11804.1	2603.5	159.3	118.7	88.1	71.2	105.1	98.3	64.4	44.1
5912.2	80°	5183.4	1084.8	91.5	54.2	33.9	27.1	37.3	27.1	20.3	13.6
810.2	82.5°	606.8	254.3	33.9	20.3	13.6	6.8	3.4	0.0	0.0	0.0
247.5	85°	125.4	30.5	17.0	6.8	3.4	0.0	0.0	0.0	0.0	0.0
44.1	87.5°	23.7	6.8	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°
6081.7
5908.8
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4864.7
3539.2
2288.3
1834.0
1671.3
1515.3
1362.8
1230.6
1139.0
1040.7
952.6
867.8
793.3
728.9
684.8
644.1
613.6
586.5
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