

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: P944274

Luminaire Tested: **GALN-SB9A-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

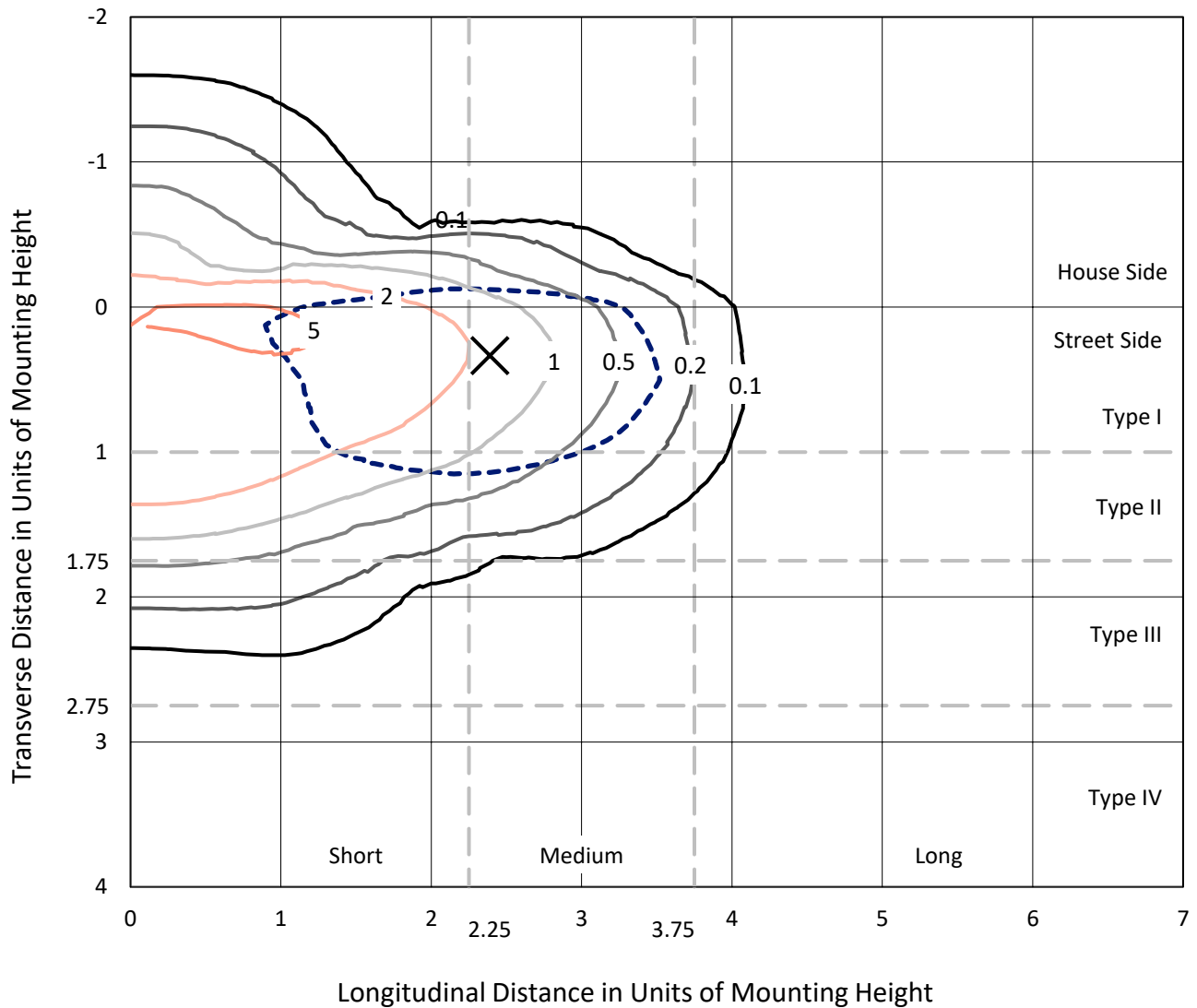
Lumens per Lamp: N/A  
Luminaire Lumens: 18161 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

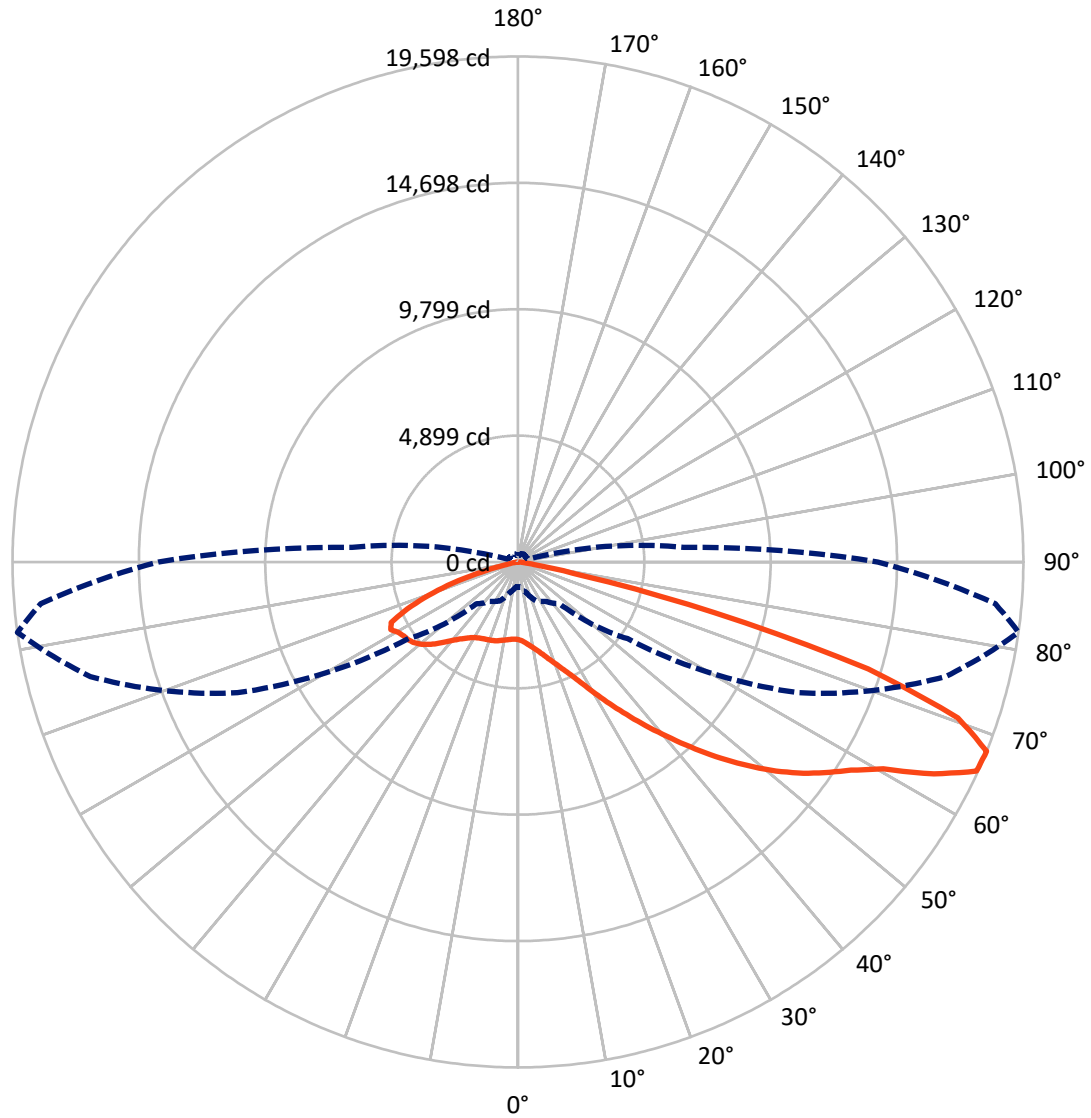
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3289.7	0.0	3289.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14871.3	0.0	14871.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	18161.0	0.0	18161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	1.5
10°-20°	696.6	3.8
20°-30°	1115.7	6.1
30°-40°	1972.8	10.9
40°-50°	3456.6	19.0
50°-60°	4610.1	25.4
60°-70°	4291.8	23.6
70°-80°	1647.2	9.1
80°-90°	102.3	0.6
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°	18161.0	100.0
0°-180°	18161.0	100.0

**Coefficient of Utilization**



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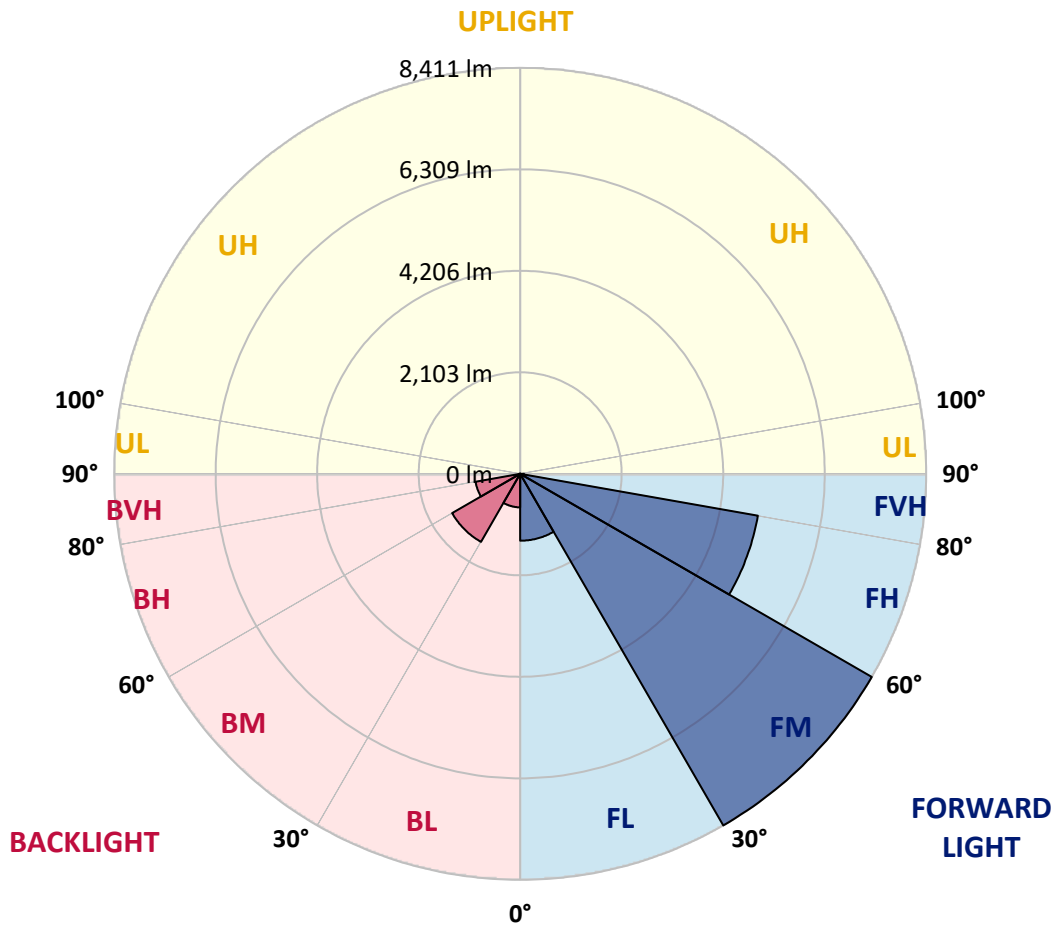
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.5	7.6			
FM (30°-60°)	8411.4	46.3			
FH (60°-80°)	5000.0	27.5			G2/5000
FVH (80°-90°)	74.4	0.4			G1/100
BL (0°-30°)	694.8	3.8	B2/1000		
BM (30°-60°)	1628.1	9.0	B2/2500		
BH (60°-80°)	938.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7
2.5°	3180.0	3198.3	3187.8	3182.6	3173.4	3160.3	3149.9	3117.2	3083.2	3061.0
5°	3244.0	3262.3	3261.0	3266.2	3272.8	3276.7	3274.1	3237.5	3189.1	3151.2
7.5°	3189.1	3210.0	3227.0	3253.2	3298.9	3347.3	3370.9	3363.0	3313.3	3261.0
10°	3033.5	3055.7	3096.3	3157.7	3254.5	3359.1	3446.7	3487.2	3455.8	3398.3
12.5°	2748.5	2770.7	2850.5	2983.8	3146.0	3327.7	3495.1	3603.6	3611.4	3553.9
15°	2428.1	2450.3	2535.3	2702.7	2949.8	3241.4	3521.2	3726.5	3795.8	3746.1
17.5°	2229.4	2249.0	2313.0	2447.7	2705.3	3068.8	3512.1	3857.3	4015.5	3976.2
20°	2169.2	2186.2	2216.3	2310.4	2524.9	2889.7	3451.9	3980.2	4252.1	4229.9
22.5°	2233.3	2249.0	2258.1	2300.0	2434.7	2772.0	3376.1	4105.7	4526.7	4529.3
25°	2381.0	2396.7	2386.3	2412.4	2471.3	2735.4	3347.3	4253.4	4871.9	4900.7
27.5°	2624.2	2625.6	2600.7	2599.4	2608.6	2790.3	3377.4	4411.7	5307.3	5360.9
30°	3112.0	3092.3	2996.9	2893.6	2846.5	2955.1	3461.1	4598.6	5821.2	5916.6
32.5°	3863.8	3835.0	3659.8	3412.7	3164.3	3220.5	3611.4	4811.8	6380.8	6553.4
35°	4679.7	4671.9	4488.8	4121.4	3687.3	3598.4	3856.0	5091.6	6991.4	7266.0
37.5°	5438.1	5434.2	5329.6	4896.8	4368.5	4125.3	4248.2	5457.7	7645.2	8042.7
40°	6131.1	6142.9	6038.2	5651.2	5119.0	4801.3	4781.7	5910.1	8372.2	8888.7
42.5°	6729.9	6743.0	6637.1	6350.8	5860.4	5549.2	5436.8	6464.5	9082.2	9797.4
45°	7136.6	7217.7	7202.0	6973.1	6621.4	6298.4	6223.9	7160.1	9891.6	10761.1
47.5°	7251.6	7326.2	7443.9	7475.2	7260.8	6943.1	7032.0	7998.3	10710.1	11726.1
50°	6967.9	7037.2	7281.7	7607.3	7756.4	7658.3	7817.8	8896.5	11548.2	12688.4
52.5°	6408.3	6478.9	6787.5	7302.6	7910.7	8219.2	8606.3	9781.8	12360.2	13599.8
55°	5598.9	5673.4	6069.6	6652.8	7616.5	8450.7	9264.0	10665.7	13104.2	14419.6
57.5°	4498.0	4552.9	4964.8	5780.7	6876.4	8220.5	9749.1	11630.6	13805.1	15225.1
60°	2931.5	2979.9	3458.5	4368.5	5649.9	7451.7	9845.8	12706.7	14736.0	16272.4
62.5°	1949.6	1982.2	2266.0	2934.1	3978.9	5975.5	9279.7	13565.8	16101.1	18095.1
65°	1337.6	1370.3	1654.0	2119.5	2570.6	3952.7	7651.8	13452.0	17338.1	19542.6
67.5°	954.5	982.0	1222.6	1661.9	1860.6	2296.1	5187.0	11998.0	17160.2	19597.5
70°	683.8	699.5	898.3	1294.5	1478.8	1379.5	2884.4	9176.4	15025.0	18096.4
72.5°	478.6	483.8	623.7	985.9	1191.2	1006.8	1372.9	6118.0	11363.9	14203.9
75°	324.3	330.8	419.7	723.1	955.8	768.8	727.0	3280.6	6671.1	7862.3
77.5°	198.7	201.4	270.7	494.3	715.2	585.8	468.1	1389.9	2581.1	2534.0
80°	112.4	112.4	172.6	307.3	487.7	377.9	328.2	591.0	817.2	717.8
82.5°	62.8	64.1	125.5	190.9	323.0	223.6	180.4	273.3	353.0	312.5
85°	26.2	28.8	77.1	90.2	154.3	111.1	73.2	115.1	130.8	116.4
87.5°	2.6	3.9	23.5	17.0	18.3	22.2	10.5	22.2	18.3	18.3
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°
3008.7	0°	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7
3053.1	2.5°	3028.3	3008.7	2959.0	2901.4	2825.6	2789.0	2739.3	2705.3	2676.5	2679.2
3129.0	5°	3087.1	3037.4	2926.3	2787.7	2615.1	2492.2	2361.4	2271.2	2198.0	2182.3
3233.6	7.5°	3168.2	3089.7	2894.9	2645.2	2353.6	2132.6	1935.2	1808.3	1718.1	1689.3
3360.4	10°	3272.8	3159.0	2854.4	2466.0	2046.3	1765.2	1553.4	1454.0	1392.5	1371.6
3509.5	12.5°	3394.4	3238.8	2800.8	2247.7	1729.9	1459.2	1324.5	1274.9	1255.2	1248.7
3692.5	15°	3547.4	3338.2	2719.7	1988.8	1461.8	1272.2	1214.7	1208.2	1210.8	1208.2
3912.2	17.5°	3729.1	3446.7	2587.6	1722.0	1281.4	1176.8	1155.9	1161.1	1167.6	1166.3
4158.0	20°	3927.9	3553.9	2419.0	1485.4	1158.5	1108.8	1097.0	1102.3	1107.5	1104.9
4441.7	22.5°	4154.1	3669.0	2232.0	1301.0	1076.1	1046.0	1033.0	1034.3	1034.3	1029.0
4801.3	25°	4424.7	3795.8	2035.8	1170.3	1013.3	989.8	974.1	968.9	961.0	945.4
5238.0	27.5°	4747.7	3930.5	1847.6	1078.7	963.7	941.4	923.1	910.1	890.4	864.3
5762.4	30°	5111.2	4093.9	1688.0	1021.2	924.4	902.2	881.3	861.7	832.9	800.2
6365.1	32.5°	5538.8	4269.1	1571.7	983.3	889.1	865.6	840.8	817.2	785.8	753.1
7042.4	35°	6048.7	4481.0	1503.7	957.1	861.7	830.3	802.8	776.7	753.1	724.4
7778.6	37.5°	6601.8	4705.9	1482.8	944.0	843.4	795.0	763.6	745.3	742.7	725.7
8574.9	40°	7207.2	4972.6	1498.4	936.2	823.8	761.0	727.0	723.1	729.6	699.5
9426.1	42.5°	7847.9	5289.0	1524.6	927.1	796.3	727.0	694.3	694.3	689.1	647.2
10325.7	45°	8540.9	5653.8	1550.7	904.8	763.6	693.0	668.2	659.0	636.8	596.2
11230.5	47.5°	9239.1	6025.2	1570.4	864.3	724.4	664.2	642.0	621.1	588.4	551.8
12118.3	50°	9902.0	6358.6	1549.4	804.1	679.9	636.8	613.2	584.5	549.2	524.3
12959.1	52.5°	10494.4	6647.6	1460.5	733.5	632.9	608.0	587.1	557.0	528.2	502.1
13717.5	55°	11009.5	6881.6	1303.6	666.8	591.0	583.2	562.2	524.3	485.1	462.9
14469.3	57.5°	11503.8	7059.4	1107.5	611.9	553.1	555.7	524.3	490.3	453.7	430.2
15482.7	60°	12161.5	7297.4	908.7	560.9	512.6	520.4	486.4	461.6	415.8	385.7
17220.4	62.5°	13212.8	7667.4	721.8	498.2	465.5	468.1	453.7	423.6	368.7	333.4
18508.3	65°	14047.0	7531.5	568.8	430.2	411.9	415.8	415.8	383.1	324.3	283.7
18577.6	67.5°	13952.8	6448.8	453.7	363.5	360.9	363.5	372.7	345.2	287.7	255.0
17162.8	70°	12853.2	5129.5	363.5	302.0	313.8	307.3	333.4	315.1	258.9	226.2
13305.6	72.5°	10487.8	3695.1	277.2	249.7	240.6	251.0	300.7	283.7	215.7	179.1
7047.7	75°	6128.5	1971.8	206.6	197.4	173.9	209.2	266.7	241.9	164.8	132.1
2160.1	77.5°	1995.3	687.8	151.7	145.1	129.4	168.7	227.5	204.0	134.7	104.6
632.9	80°	534.8	207.9	103.3	95.5	83.7	125.5	180.4	162.1	96.8	68.0
272.0	82.5°	214.4	87.6	60.1	53.6	45.8	86.3	142.5	130.8	71.9	43.1
85.0	85°	69.3	28.8	22.2	17.0	20.9	53.6	85.0	88.9	51.0	22.2
13.1	87.5°	9.2	3.9	3.9	5.2	3.9	9.2	26.2	24.8	14.4	2.6
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°
3008.7
2653.0
2147.0
1660.6
1355.9
1244.8
1206.9
1163.7
1103.6
1026.4
942.7
861.7
797.6
754.5
721.8
724.4
700.8
647.2
594.9
550.5
520.4
499.5
460.3
427.6
381.8
330.8
279.8
249.7
222.3
175.2
128.1
100.7
66.7
43.1
17.0
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