

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: P943597

Luminaire Tested: **GALN-SB8A-927-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-927-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

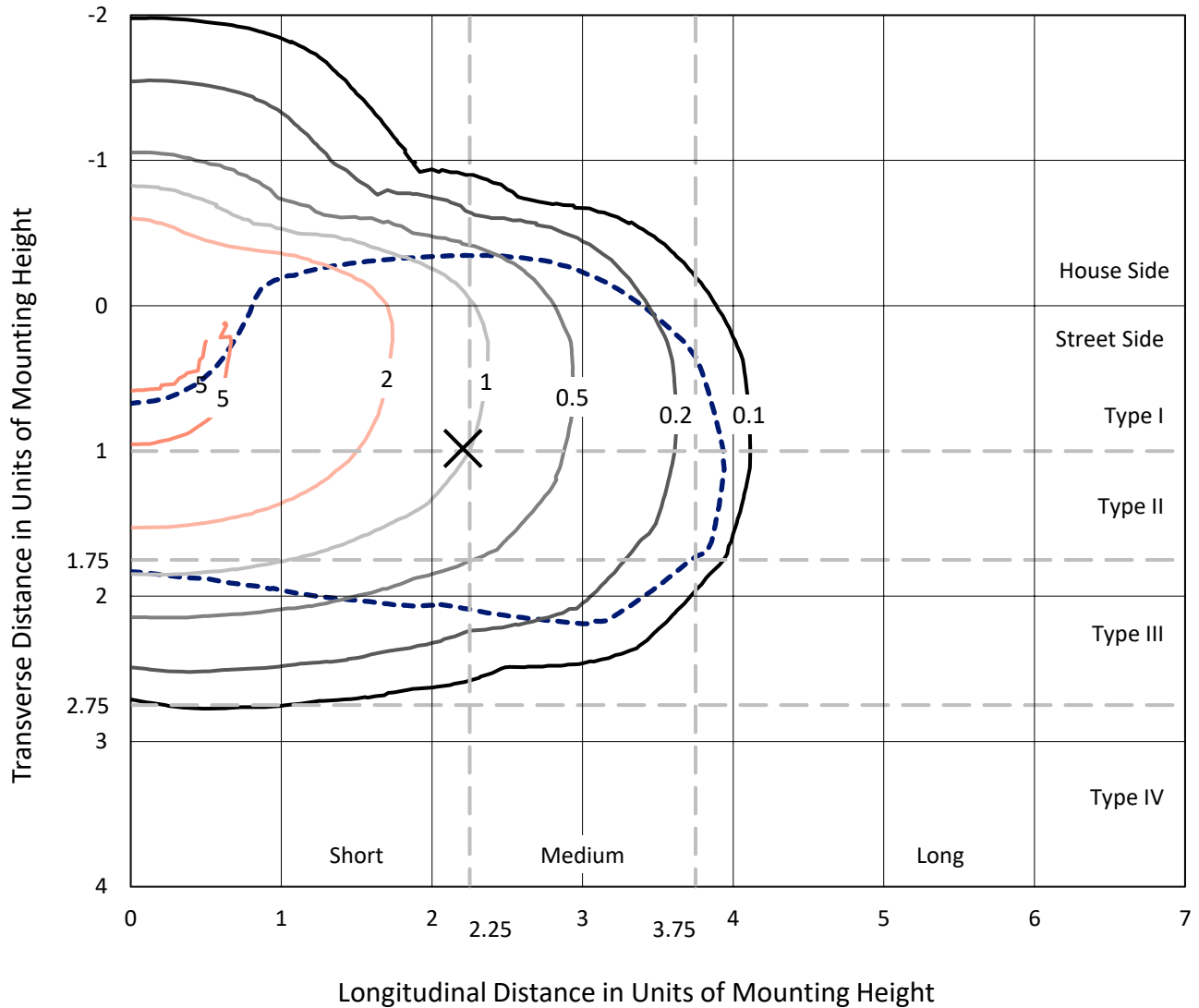
Lumens per Lamp: N/A  
Luminaire Lumens: 22094 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

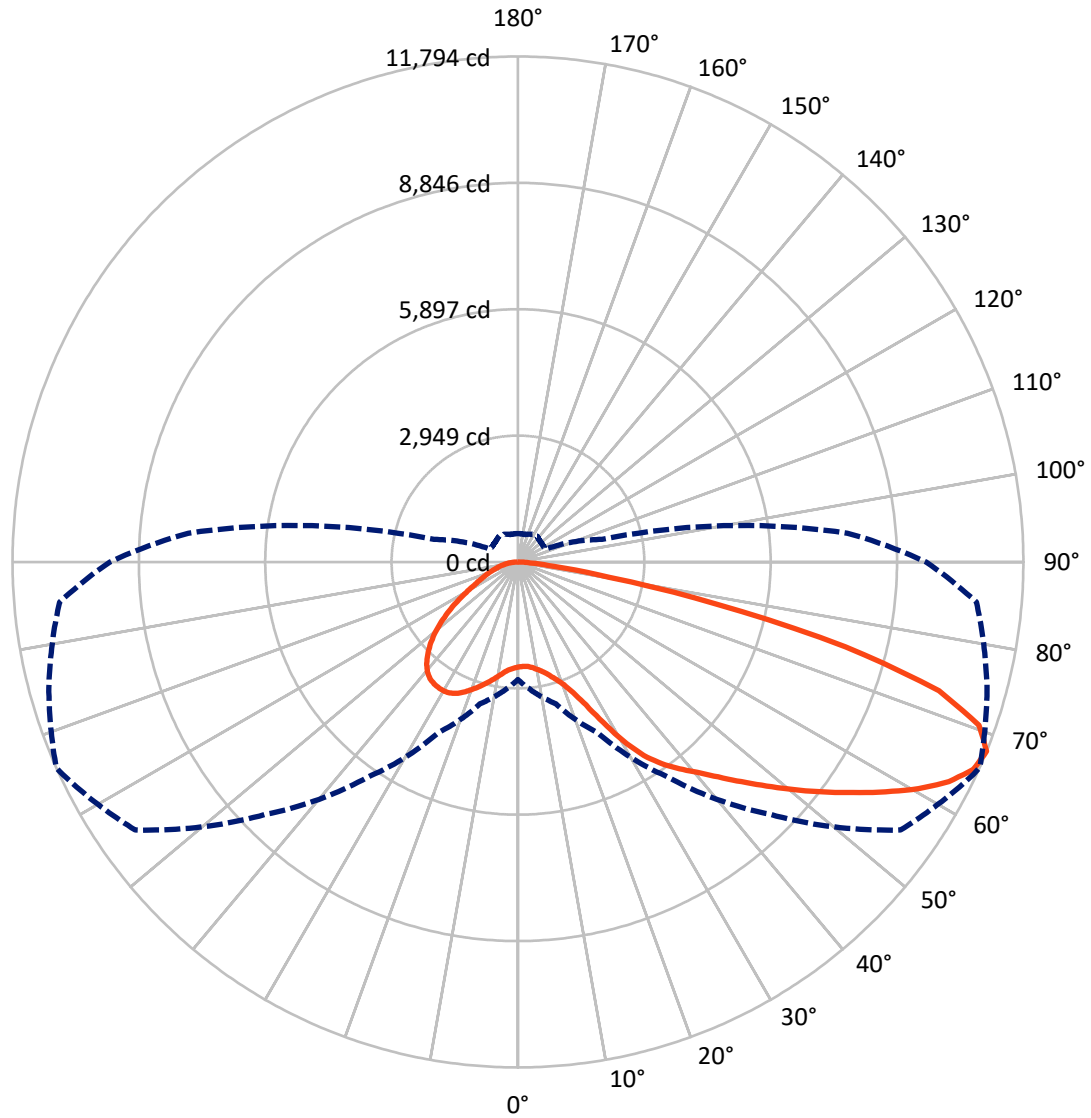
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5493.6	0.0	5493.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	16600.4	0.0	16600.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	22094.0	0.0	22094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	1.1
10°-20°	802.7	3.6
20°-30°	1547.2	7.0
30°-40°	2712.8	12.3
40°-50°	4033.0	18.3
50°-60°	5112.2	23.1
60°-70°	5002.2	22.6
70°-80°	2386.1	10.8
80°-90°	255.0	1.2
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°	22094.0	100.0
0°-180°	22094.0	100.0

**Coefficient of Utilization**



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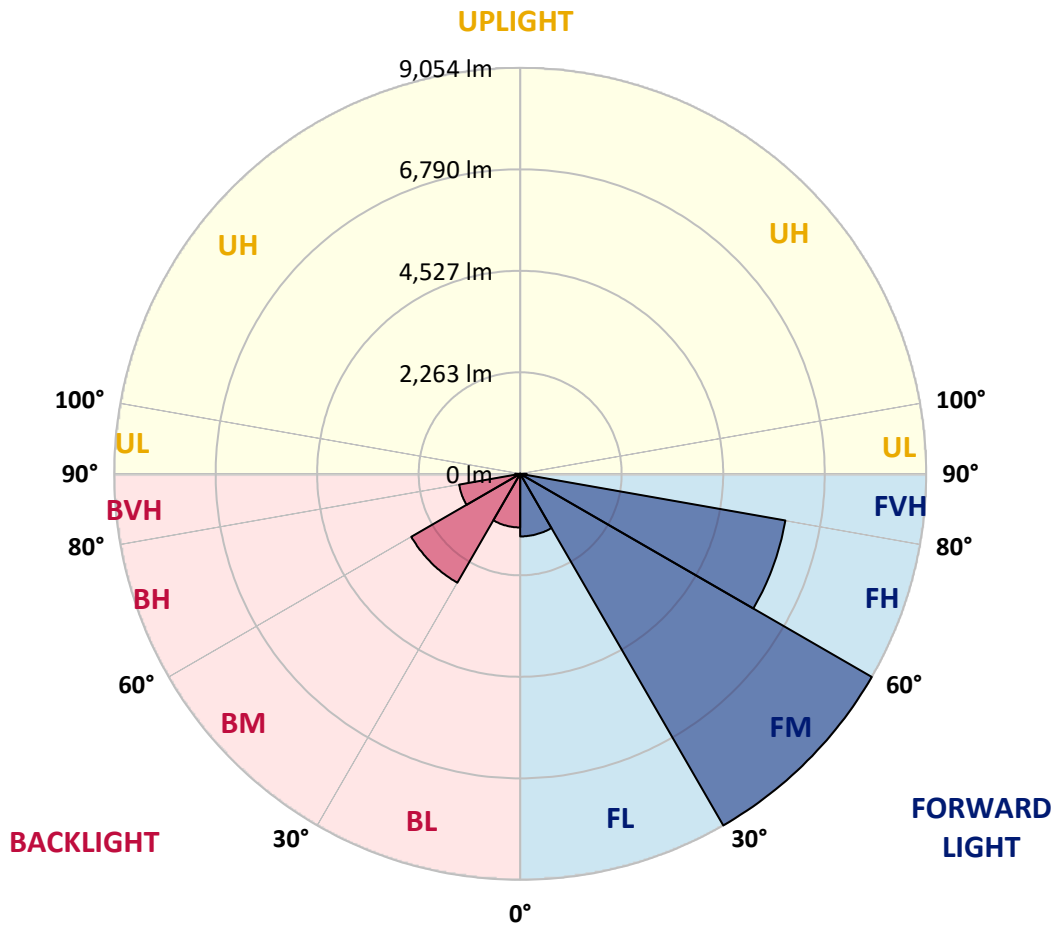
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.1	6.3			
FM (30°-60°)	9053.9	41.0			
FH (60°-80°)	6005.8	27.2			G3/7500
FVH (80°-90°)	144.6	0.7			G2/225
BL (0°-30°)	1196.7	5.4	B3/2500		
BM (30°-60°)	2804.0	12.7	B3/5000		
BH (60°-80°)	1382.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	110.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5
2.5°	2425.0	2438.9	2435.4	2429.6	2428.5	2430.8	2434.3	2437.7	2436.6	2442.4
5°	2418.0	2431.9	2430.8	2430.8	2435.4	2444.7	2450.5	2456.3	2450.5	2457.5
7.5°	2422.7	2433.1	2437.7	2442.4	2454.0	2471.4	2485.3	2498.1	2491.1	2499.3
10°	2481.9	2490.0	2494.6	2494.6	2502.8	2522.5	2536.4	2559.6	2553.8	2566.6
12.5°	2589.8	2597.9	2597.9	2593.3	2599.1	2611.9	2616.5	2642.1	2631.6	2652.5
15°	2722.2	2738.4	2725.6	2717.5	2719.8	2732.6	2731.4	2751.2	2740.7	2758.1
17.5°	2868.4	2889.3	2868.4	2867.3	2862.6	2876.5	2877.7	2895.1	2876.5	2889.3
20°	3041.4	3070.4	3053.0	3058.8	3048.3	3054.1	3060.0	3085.5	3056.5	3065.8
22.5°	3285.2	3320.0	3301.4	3323.5	3316.5	3311.9	3310.7	3356.0	3310.7	3314.2
25°	3640.4	3682.2	3649.7	3679.8	3679.8	3694.9	3712.3	3770.4	3694.9	3672.9
27.5°	4165.1	4206.9	4143.0	4161.6	4155.8	4192.9	4174.4	4318.3	4237.0	4201.1
30°	4796.6	4870.9	4750.1	4745.5	4739.7	4798.9	4825.6	4920.8	4838.3	4802.4
32.5°	5479.1	5556.9	5413.0	5371.2	5349.1	5385.1	5363.0	5439.7	5382.8	5327.1
35°	6201.2	6277.8	6140.8	6059.5	5971.3	5895.9	5816.9	5836.7	5783.3	5698.5
37.5°	6883.7	7024.2	6879.1	6792.0	6629.5	6482.1	6261.5	6169.8	6119.9	6042.1
40°	7579.1	7659.2	7548.9	7474.6	7298.2	7067.1	6714.3	6520.4	6453.1	6377.6
42.5°	8091.0	8167.6	8108.4	8057.3	7919.2	7651.0	7194.8	6952.2	6854.7	6770.0
45°	8497.3	8554.2	8517.0	8535.6	8476.4	8216.4	7692.8	7415.4	7314.4	7211.1
47.5°	8661.0	8721.3	8780.5	8890.8	8991.8	8800.3	8228.0	7916.9	7810.1	7704.4
50°	8642.4	8703.9	8875.7	9110.2	9423.6	9359.8	8792.1	8450.9	8352.2	8231.5
52.5°	8493.8	8563.5	8784.0	9174.1	9673.2	9778.8	9366.8	9002.3	8909.4	8765.4
55°	8103.8	8145.6	8476.4	9029.0	9732.4	10071.4	9929.8	9589.6	9496.8	9295.9
57.5°	7380.6	7440.9	7922.7	8637.8	9583.8	10269.9	10424.3	10207.2	10117.8	9828.8
60°	6436.8	6533.2	7084.6	7980.7	9205.4	10268.7	10873.5	10814.3	10740.0	10353.5
62.5°	5368.8	5480.3	6010.8	7052.1	8543.7	9977.4	11154.4	11322.8	11284.4	10837.5
65°	4123.3	4199.9	4728.1	5850.6	7514.1	9351.7	11186.9	11669.8	11676.8	11205.5
67.5°	2745.4	2965.9	3424.5	4390.3	6135.0	8329.0	10901.4	11726.7	11794.1	11332.0
70°	1339.6	1629.8	2079.1	2853.3	4390.3	6760.7	10155.0	11260.1	11409.8	10962.9
72.5°	556.0	650.1	895.0	1408.1	2520.2	4562.1	8655.2	9994.8	10272.2	9713.8
75°	374.9	406.3	511.9	722.0	1148.1	2249.7	6241.8	7452.5	7899.5	7336.5
77.5°	289.0	308.8	372.6	505.0	682.6	850.9	3340.9	4491.3	4722.3	4371.7
80°	227.5	242.6	278.6	368.0	484.1	455.0	1138.8	2034.9	2168.4	1819.0
82.5°	197.3	203.1	199.7	249.6	321.6	265.8	373.8	751.1	828.8	601.3
85°	142.8	159.0	166.0	154.4	170.6	134.7	153.2	265.8	292.5	261.2
87.5°	58.0	85.9	105.6	99.8	62.7	38.3	47.6	77.8	89.4	97.5
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°
2450.5	0°	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5	2450.5
2451.7	2.5°	2452.8	2461.0	2466.8	2473.7	2478.4	2485.3	2499.3	2507.4	2508.6	2514.4
2470.3	5°	2474.9	2486.5	2499.3	2517.8	2538.7	2556.2	2582.9	2601.4	2608.4	2614.2
2515.5	7.5°	2522.5	2538.7	2562.0	2594.5	2624.6	2647.9	2680.4	2702.4	2724.5	2732.6
2587.5	10°	2593.3	2616.5	2650.2	2694.3	2726.8	2757.0	2790.6	2809.2	2831.3	2840.6
2673.4	12.5°	2681.5	2705.9	2750.0	2811.5	2841.7	2862.6	2874.2	2869.6	2874.2	2882.3
2776.7	15°	2782.5	2809.2	2859.1	2925.3	2946.2	2927.6	2902.1	2878.9	2875.4	2877.7
2902.1	17.5°	2902.1	2921.8	2979.9	3035.6	3020.5	2943.9	2888.2	2851.0	2832.4	2826.6
3062.3	20°	3069.2	3069.2	3116.8	3151.7	3050.7	2920.7	2833.6	2773.2	2734.9	2718.7
3280.5	22.5°	3272.4	3253.8	3284.0	3259.6	3044.9	2855.6	2734.9	2630.4	2572.4	2549.2
3585.8	25°	3530.1	3508.0	3499.9	3349.0	3003.1	2752.3	2556.2	2429.6	2378.5	2365.8
4025.8	27.5°	3919.0	3863.2	3757.6	3397.8	2926.5	2589.8	2347.2	2230.0	2200.9	2202.1
4591.1	30°	4436.7	4325.3	4066.4	3405.9	2801.1	2360.0	2133.6	2050.0	2036.1	2041.9
5065.9	32.5°	4916.1	4810.5	4382.1	3368.7	2608.4	2134.8	1942.1	1886.4	1865.5	1872.4
5428.1	35°	5292.2	5263.2	4674.7	3316.5	2371.6	1923.5	1770.3	1722.7	1682.0	1672.8
5769.3	37.5°	5647.4	5635.8	4894.1	3243.4	2137.1	1773.8	1632.1	1569.4	1510.2	1477.7
6146.6	40°	6037.5	6025.9	5038.0	3130.8	1929.3	1643.7	1507.9	1425.5	1352.4	1293.2
6573.8	42.5°	6476.3	6407.8	5106.5	2969.4	1752.9	1533.5	1406.9	1295.5	1199.1	1144.6
7056.7	45°	6955.7	6801.3	5105.3	2763.9	1604.3	1432.5	1299.0	1141.1	1051.7	1000.6
7552.4	47.5°	7464.2	7177.4	5042.7	2536.4	1460.3	1321.0	1131.8	1011.1	951.9	920.5
8091.0	50°	7988.8	7529.2	4935.9	2275.2	1312.9	1194.5	1027.3	944.9	899.6	870.6
8625.0	52.5°	8482.2	7848.4	4807.0	1979.2	1163.2	1071.4	980.9	917.1	869.5	837.0
9142.7	55°	8940.7	8123.5	4624.8	1676.2	1041.3	989.0	958.8	905.4	850.9	812.6
9668.6	57.5°	9348.2	8302.3	4310.2	1391.8	954.2	932.1	935.6	885.7	823.0	790.5
10186.3	60°	9687.1	8433.4	3844.7	1128.3	883.4	876.4	899.6	848.6	775.4	738.3
10623.9	62.5°	9890.3	8431.1	3273.5	924.0	823.0	825.4	852.1	802.1	727.8	693.0
10852.6	65°	9872.9	8224.5	2646.7	790.5	765.0	767.3	802.1	751.1	688.4	667.5
10737.7	67.5°	9523.5	7720.7	2030.3	703.5	701.1	711.6	752.2	716.2	664.0	661.7
10052.8	70°	8577.4	6674.8	1462.6	633.8	635.0	650.1	703.5	694.2	651.2	655.9
8452.0	72.5°	6877.9	5089.1	982.1	560.7	561.8	586.2	657.0	676.8	638.5	700.0
5996.9	75°	4580.6	3173.7	631.5	482.9	484.1	515.4	616.4	643.1	603.6	697.7
3120.3	77.5°	2200.9	1426.7	457.4	406.3	406.3	435.3	532.8	575.8	514.2	542.1
1003.0	80°	760.3	536.3	359.9	327.4	320.4	340.1	449.2	499.2	443.4	408.6
327.4	82.5°	299.5	278.6	289.0	254.2	231.0	243.8	349.4	412.1	326.2	294.9
184.6	85°	171.8	181.1	204.3	168.3	133.5	149.7	256.5	296.0	246.1	217.1
60.4	87.5°	46.4	63.8	94.0	87.1	60.4	63.8	121.9	163.7	141.6	109.1
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>
2450.5
2513.2
2613.0
2733.8
2845.2
2884.7
2885.8
2834.8
2715.2
2545.7
2368.1
2205.6
2061.6
1881.7
1679.7
1478.9
1299.0
1148.1
998.3
913.6
860.2
823.0
797.5
769.6
722.0
682.6
666.3
665.2
654.7
709.3
703.5
496.8
383.1
293.7
221.7
112.6
0.0

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