

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: P943087

Luminaire Tested: **GALN-SB7B-927-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943087  
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-SB7B-927-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

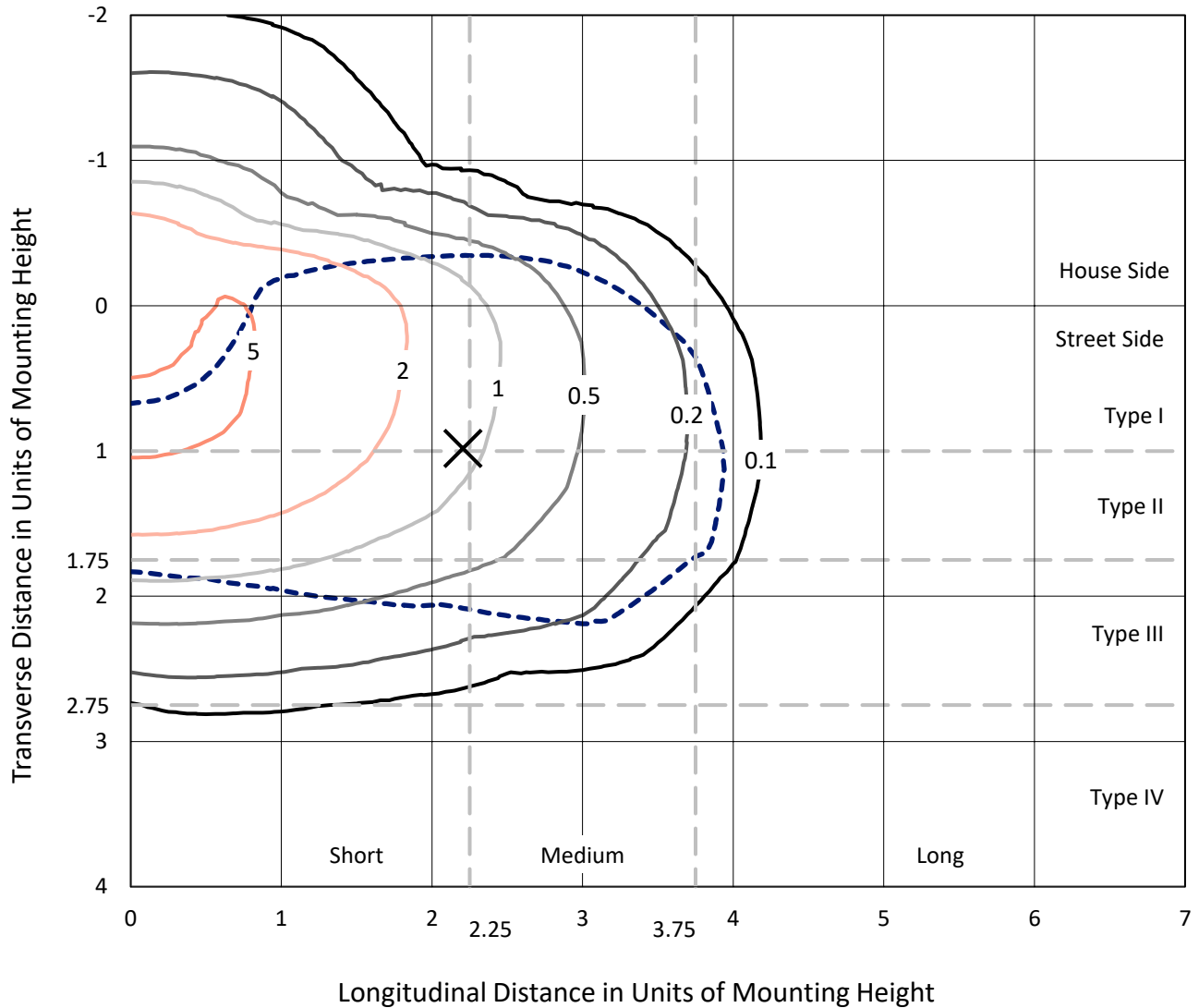
Lumens per Lamp: N/A  
Luminaire Lumens: 24392 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

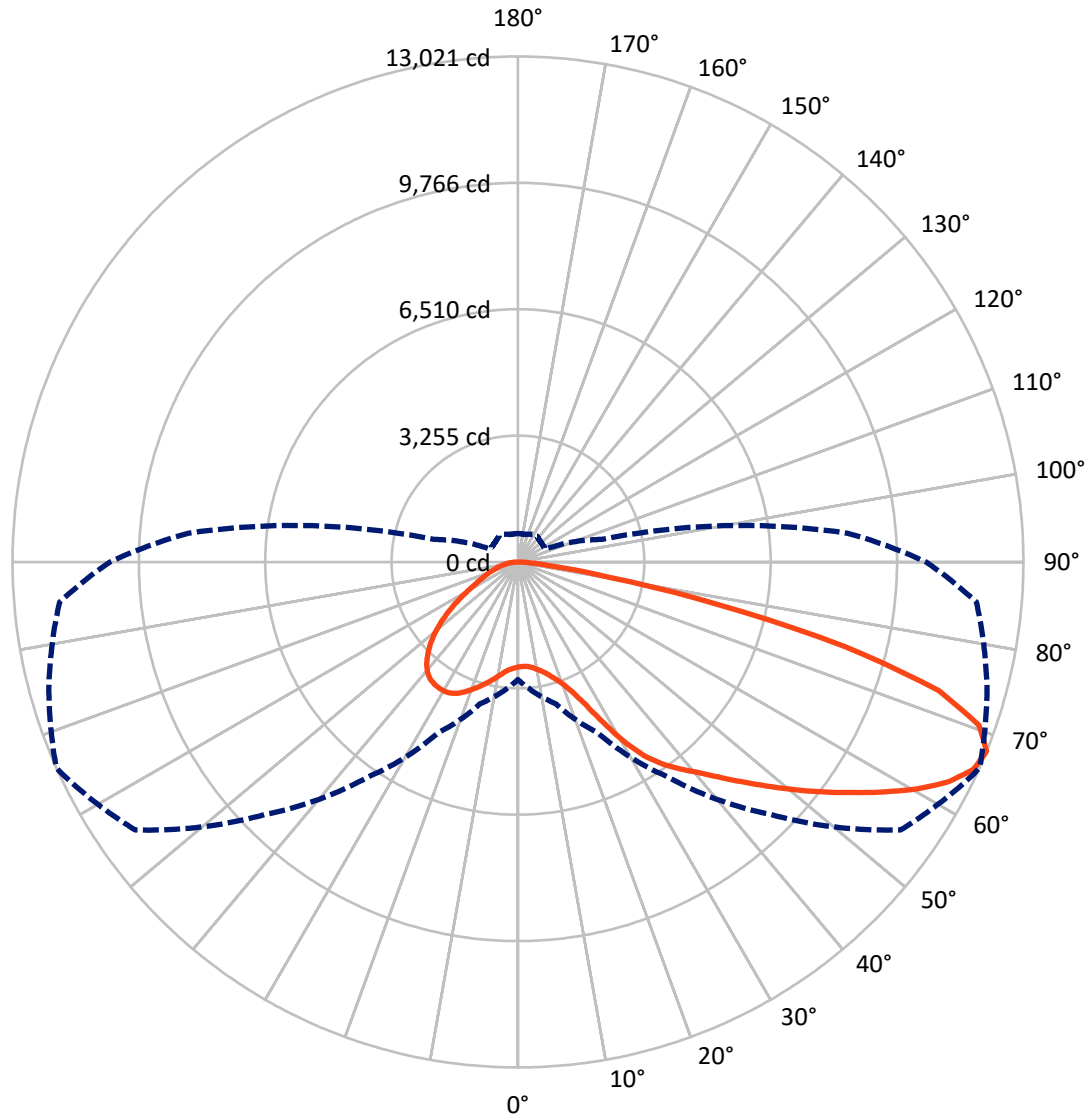
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6065.0	0.0	6065.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	18327.0	0.0	18327.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	24392.0	0.0	24392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.2	1.1
10°-20°	886.2	3.6
20°-30°	1708.1	7.0
30°-40°	2994.9	12.3
40°-50°	4452.4	18.3
50°-60°	5643.9	23.1
60°-70°	5522.4	22.6
70°-80°	2634.3	10.8
80°-90°	281.5	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°	24392.0	100.0
0°-180°	24392.0	100.0

**Coefficient of Utilization**



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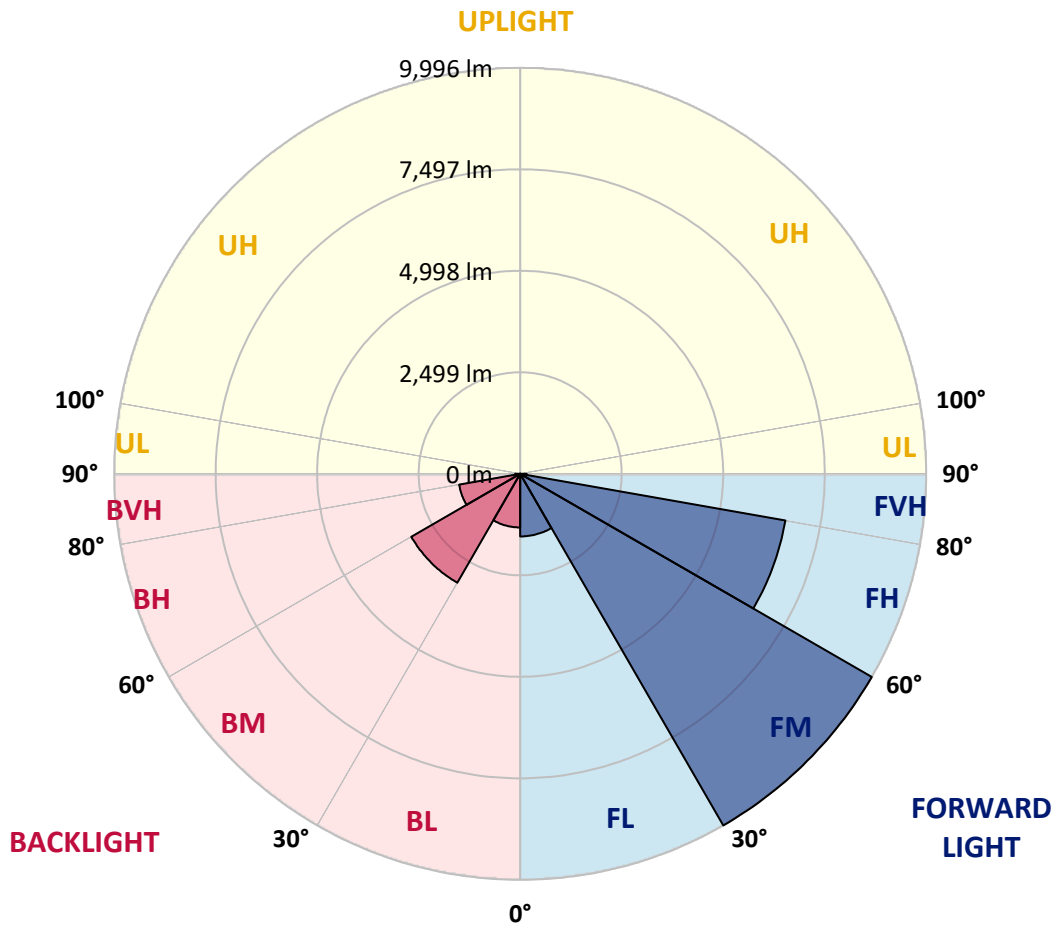
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.3	6.3			
FM (30°-60°)	9995.6	41.0			
FH (60°-80°)	6630.4	27.2			G3/7500
FVH (80°-90°)	159.6	0.7			G2/225
BL (0°-30°)	1321.2	5.4	B3/2500		
BM (30°-60°)	3095.6	12.7	B3/5000		
BH (60°-80°)	1526.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	121.9	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°	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4
2.5°	2677.2	2692.6	2688.7	2682.3	2681.0	2683.6	2687.5	2691.3	2690.0	2696.4
5°	2669.5	2684.9	2683.6	2683.6	2688.7	2699.0	2705.4	2711.8	2705.4	2713.1
7.5°	2674.6	2686.2	2691.3	2696.4	2709.2	2728.5	2743.8	2757.9	2750.3	2759.2
10°	2740.0	2749.0	2754.1	2754.1	2763.1	2784.9	2800.2	2825.9	2819.5	2833.6
12.5°	2859.2	2868.2	2868.2	2863.0	2869.4	2883.5	2888.7	2916.9	2905.3	2928.4
15°	3005.3	3023.2	3009.1	3000.2	3002.7	3016.8	3015.5	3037.3	3025.8	3045.0
17.5°	3166.8	3189.8	3166.8	3165.5	3160.4	3175.7	3177.0	3196.2	3175.7	3189.8
20°	3357.7	3389.8	3370.5	3376.9	3365.4	3371.8	3378.2	3406.4	3374.4	3384.6
22.5°	3626.8	3665.3	3644.8	3669.1	3661.4	3656.3	3655.0	3705.0	3655.0	3658.9
25°	4019.0	4065.1	4029.3	4062.6	4062.6	4079.2	4098.5	4162.5	4079.2	4054.9
27.5°	4598.3	4644.4	4573.9	4594.4	4588.0	4629.0	4608.5	4767.4	4677.7	4638.0
30°	5295.4	5377.5	5244.2	5239.1	5232.7	5298.0	5327.5	5432.6	5341.6	5301.9
32.5°	6049.0	6134.9	5976.0	5929.8	5905.5	5945.2	5920.9	6005.4	5942.6	5881.1
35°	6846.1	6930.7	6779.5	6689.8	6592.4	6509.1	6421.9	6443.7	6384.8	6291.2
37.5°	7599.7	7754.8	7594.6	7498.5	7319.0	7156.3	6912.8	6811.5	6756.4	6670.6
40°	8367.4	8455.8	8334.1	8252.0	8057.2	7802.2	7412.6	7198.6	7124.2	7040.9
42.5°	8932.5	9017.1	8951.8	8895.4	8742.9	8446.8	7943.2	7675.3	7567.7	7474.1
45°	9381.1	9443.9	9402.9	9423.4	9358.0	9071.0	8493.0	8186.7	8075.2	7961.1
47.5°	9561.8	9628.4	9693.8	9815.5	9927.0	9715.6	9083.8	8740.3	8622.4	8505.8
50°	9541.3	9609.2	9798.9	10057.8	10403.8	10333.3	9706.6	9329.8	9220.9	9087.6
52.5°	9377.3	9454.1	9697.6	10128.3	10679.3	10795.9	10341.0	9938.6	9836.1	9677.1
55°	8946.6	8992.8	9358.0	9968.1	10744.7	11118.9	10962.6	10587.1	10484.5	10262.8
57.5°	8148.2	8214.9	8746.7	9536.2	10580.6	11338.1	11508.5	11268.8	11170.2	10851.1
60°	7106.3	7212.7	7821.4	8810.8	10162.9	11336.8	12004.5	11939.1	11857.1	11430.3
62.5°	5927.3	6050.3	6636.0	7785.5	9432.4	11015.1	12314.6	12500.4	12458.1	11964.7
65°	4552.1	4636.7	5219.8	6459.1	8295.6	10324.3	12350.5	12883.6	12891.3	12371.0
67.5°	3030.9	3274.4	3780.6	4846.9	6773.1	9195.3	12035.2	12946.4	13020.8	12510.7
70°	1478.9	1799.3	2295.3	3150.1	4846.9	7463.9	11211.2	12431.2	12596.6	12103.2
72.5°	613.9	717.7	988.1	1554.5	2782.3	5036.6	9555.4	11034.3	11340.6	10724.2
75°	413.9	448.5	565.2	797.1	1267.5	2483.7	6891.0	8227.7	8721.1	8099.5
77.5°	319.1	340.9	411.4	557.5	753.6	939.4	3688.4	4958.4	5213.4	4826.4
80°	251.2	267.8	307.6	406.3	534.4	502.4	1257.2	2246.6	2394.0	2008.2
82.5°	217.9	224.3	220.4	275.5	355.0	293.5	412.7	829.2	915.0	663.9
85°	157.6	175.6	183.3	170.4	188.4	148.7	169.2	293.5	323.0	288.4
87.5°	64.1	94.8	116.6	110.2	69.2	42.3	52.5	85.9	98.7	107.7
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°
2705.4	0°	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4	2705.4
2706.7	2.5°	2708.0	2716.9	2723.3	2731.0	2736.2	2743.8	2759.2	2768.2	2769.5	2775.9
2727.2	5°	2732.3	2745.1	2759.2	2779.7	2802.8	2822.0	2851.5	2872.0	2879.7	2886.1
2777.2	7.5°	2784.9	2802.8	2828.4	2864.3	2897.6	2923.3	2959.1	2983.5	3007.8	3016.8
2856.6	10°	2863.0	2888.7	2925.8	2974.5	3010.4	3043.7	3080.9	3101.4	3125.8	3136.0
2951.5	12.5°	2960.4	2987.3	3036.0	3104.0	3137.3	3160.4	3173.2	3168.0	3173.2	3182.1
3065.5	15°	3071.9	3101.4	3156.5	3229.6	3252.6	3232.1	3203.9	3178.3	3174.4	3177.0
3203.9	17.5°	3203.9	3225.7	3289.8	3351.3	3334.6	3250.1	3188.5	3147.5	3127.0	3120.6
3380.8	20°	3388.5	3388.5	3441.0	3479.5	3368.0	3224.4	3128.3	3061.7	3019.4	3001.4
3621.7	22.5°	3612.7	3592.2	3625.6	3598.6	3361.6	3152.7	3019.4	2904.0	2840.0	2814.3
3958.8	25°	3897.3	3872.9	3863.9	3697.3	3315.4	3038.6	2822.0	2682.3	2625.9	2611.8
4444.5	27.5°	4326.6	4265.1	4148.4	3751.2	3230.8	2859.2	2591.3	2461.9	2429.9	2431.1
5068.6	30°	4898.2	4775.1	4489.3	3760.1	3092.4	2605.4	2355.5	2263.3	2247.9	2254.3
5592.8	32.5°	5427.5	5310.8	4837.9	3719.1	2879.7	2356.8	2144.1	2082.6	2059.5	2067.2
5992.6	35°	5842.7	5810.6	5160.9	3661.4	2618.2	2123.6	1954.4	1901.9	1857.0	1846.7
6369.4	37.5°	6234.8	6222.0	5403.1	3580.7	2359.4	1958.2	1801.9	1732.7	1667.3	1631.4
6785.9	40°	6665.4	6652.6	5562.0	3456.4	2130.0	1814.7	1664.8	1573.8	1493.0	1427.7
7257.5	42.5°	7149.9	7074.3	5637.6	3278.3	1935.2	1693.0	1553.3	1430.2	1323.9	1263.6
7790.7	45°	7679.2	7508.7	5636.3	3051.4	1771.1	1581.5	1434.1	1259.8	1161.1	1104.7
8337.9	47.5°	8240.5	7923.9	5567.1	2800.2	1612.2	1458.4	1249.5	1116.2	1050.9	1016.3
8932.5	50°	8819.8	8312.3	5449.2	2511.9	1449.5	1318.7	1134.2	1043.2	993.2	961.2
9522.1	52.5°	9364.4	8664.7	5307.0	2185.1	1284.1	1182.9	1082.9	1012.4	959.9	924.0
10093.6	55°	9870.7	8968.4	5105.8	1850.6	1149.6	1091.9	1058.6	999.6	939.4	897.1
10674.2	57.5°	10320.5	9165.8	4758.5	1536.6	1053.5	1029.1	1032.9	977.8	908.6	872.7
11245.8	60°	10694.7	9310.6	4244.6	1245.7	975.3	967.6	993.2	936.8	856.1	815.1
11728.9	62.5°	10919.0	9308.0	3614.0	1020.1	908.6	911.2	940.7	885.6	803.5	765.1
11981.4	65°	10899.8	9079.9	2922.0	872.7	844.6	847.1	885.6	829.2	760.0	736.9
11854.5	67.5°	10514.0	8523.7	2241.5	776.6	774.1	785.6	830.5	790.7	733.1	730.5
11098.4	70°	9469.5	7369.0	1614.8	699.7	701.0	717.7	776.6	766.4	719.0	724.1
9331.1	72.5°	7593.3	5618.4	1084.2	619.0	620.3	647.2	725.4	747.2	704.9	772.8
6620.6	75°	5057.1	3503.8	697.2	533.1	534.4	569.0	680.5	710.0	666.4	770.2
3444.9	77.5°	2429.9	1575.1	504.9	448.5	448.5	480.6	588.2	635.7	567.7	598.5
1107.3	80°	839.4	592.1	397.3	361.4	353.7	375.5	496.0	551.1	489.6	451.1
361.4	82.5°	330.6	307.6	319.1	280.7	255.0	269.1	385.8	455.0	360.1	325.5
203.8	85°	189.7	199.9	225.6	185.8	147.4	165.3	283.2	326.8	271.7	239.7
66.6	87.5°	51.3	70.5	103.8	96.1	66.6	70.5	134.6	180.7	156.4	120.5
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>
2705.4
2774.6
2884.8
3018.1
3141.1
3184.7
3186.0
3129.6
2997.6
2810.5
2614.4
2435.0
2276.1
2077.4
1854.4
1632.7
1434.1
1267.5
1102.2
1008.6
949.6
908.6
880.4
849.7
797.1
753.6
735.6
734.3
722.8
783.0
776.6
548.5
422.9
324.2
244.8
124.3
0.0

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