

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: P943639

Luminaire Tested: **GALN-SB8A-950-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-950-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

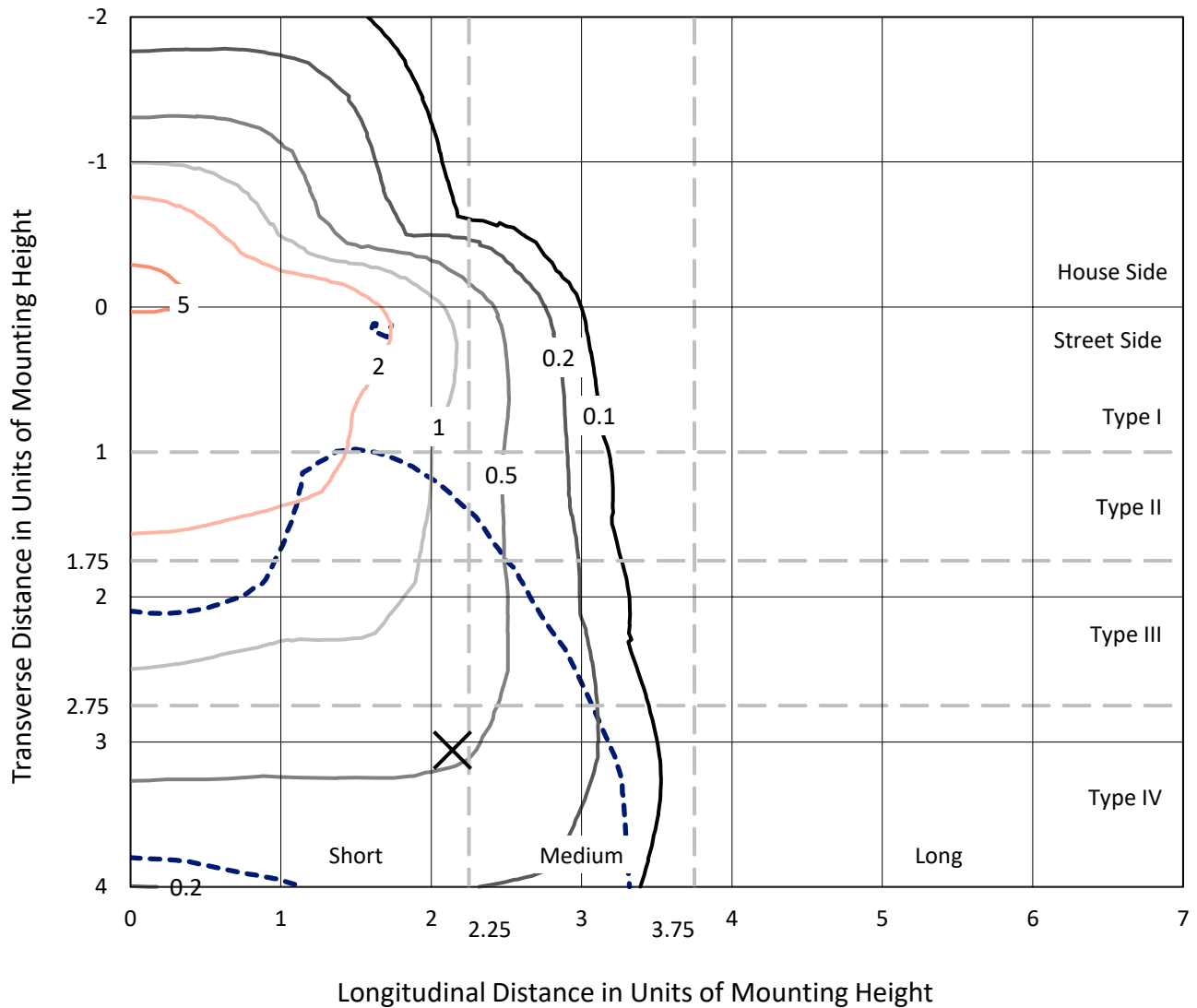
Lumens per Lamp: N/A  
Luminaire Lumens: 24940 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

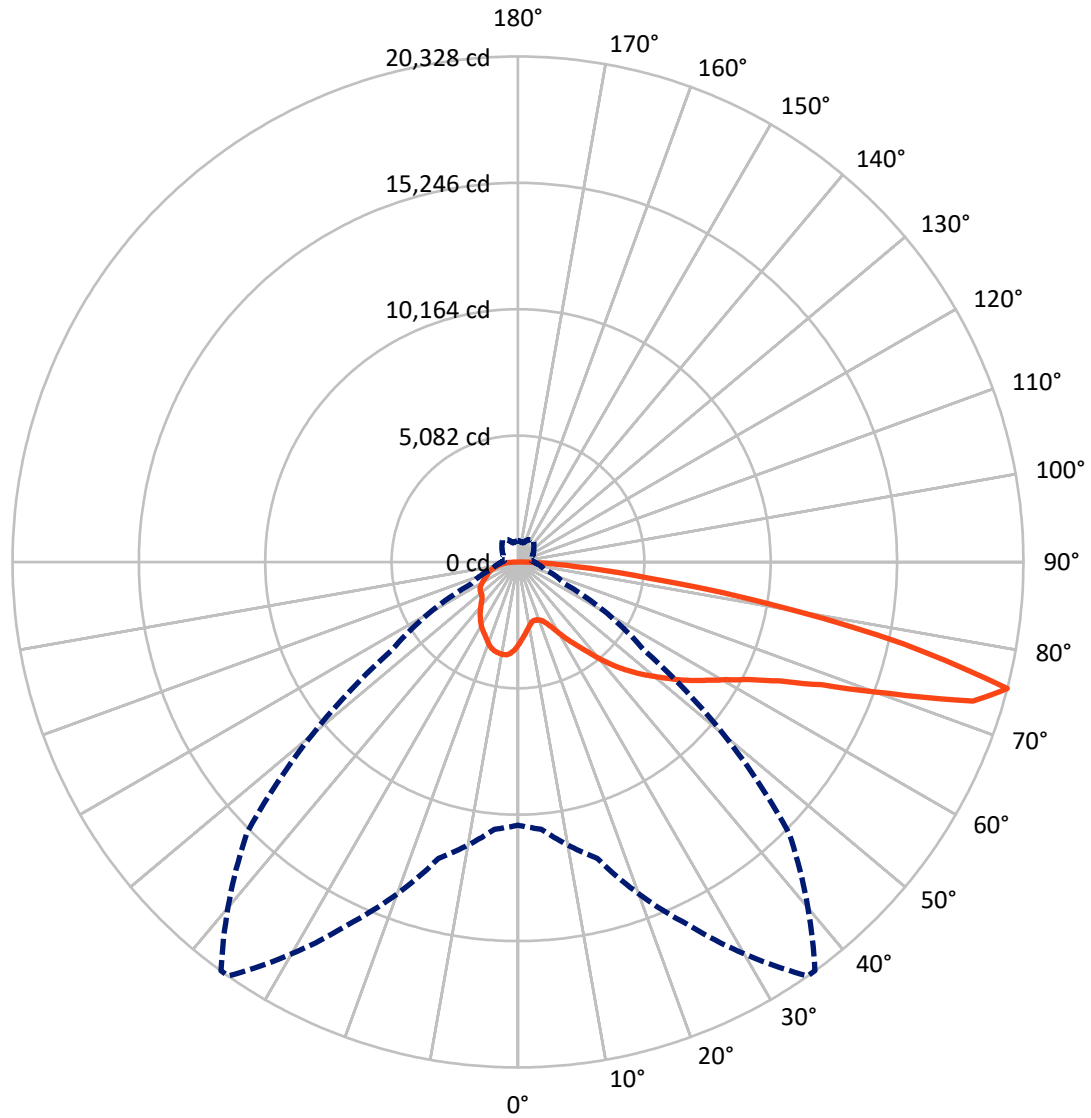
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB8A-950-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5935.1	0.0	5935.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	19004.9	0.0	19004.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	24940.0	0.0	24940.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.7	1.3
10°-20°	907.6	3.6
20°-30°	1524.1	6.1
30°-40°	2368.7	9.5
40°-50°	3515.8	14.1
50°-60°	4853.8	19.5
60°-70°	5888.7	23.6
70°-80°	4866.6	19.5
80°-90°	700.0	2.8
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°	24940.0	100.0
0°-180°	24940.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943639

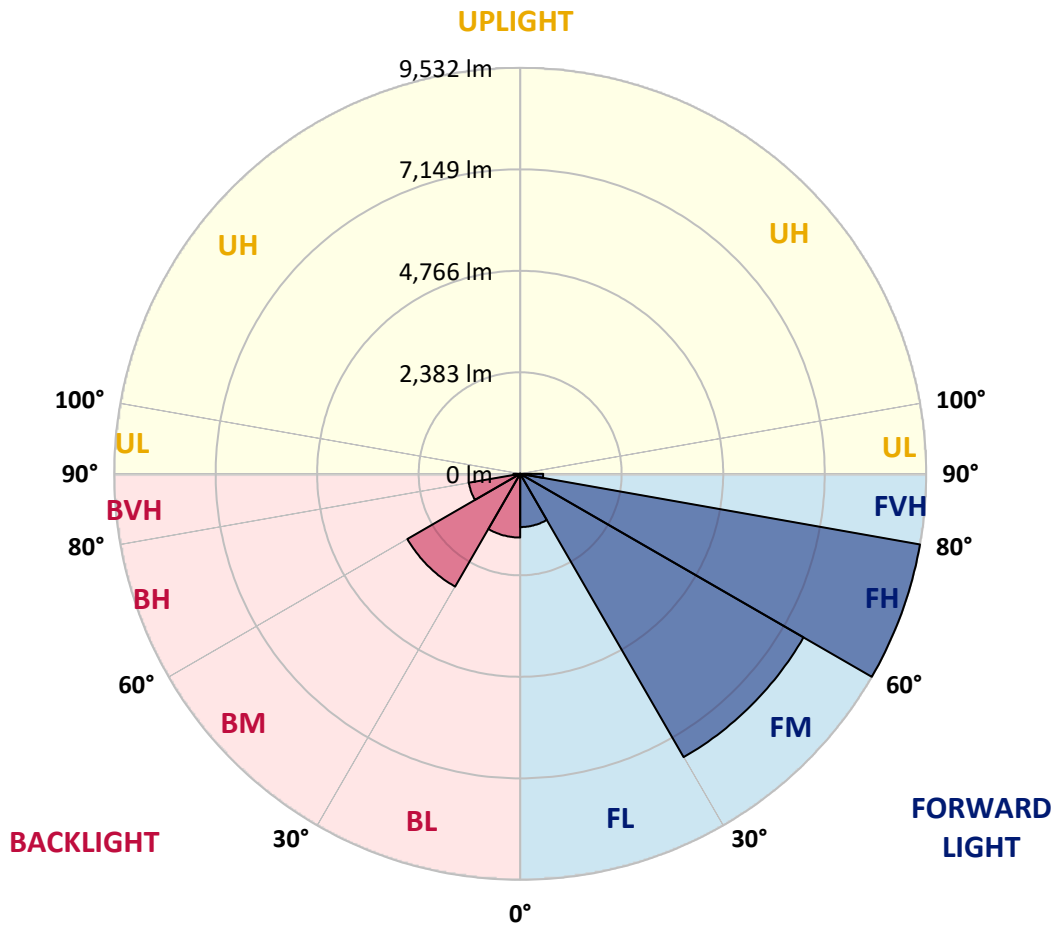
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.7	5.0			
FM (30°-60°)	7680.2	30.8			
FH (60°-80°)	9531.7	38.2			G4/12000
FVH (80°-90°)	542.3	2.2			G4/750
BL (0°-30°)	1495.7	6.0	B3/2500		
BM (30°-60°)	3058.1	12.3	B3/5000		
BH (60°-80°)	1223.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	157.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



REPORT NUMBER: P943639

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4
2.5°	3064.6	3083.4	3091.5	3087.5	3107.7	3105.0	3133.3	3168.4	3216.9	3264.1
5°	2828.6	2848.8	2866.4	2882.5	2921.6	2933.8	2978.3	3045.7	3134.7	3225.0
7.5°	2608.9	2626.4	2653.3	2683.0	2749.1	2761.2	2835.4	2940.5	3064.6	3196.7
10°	2429.5	2447.1	2475.4	2509.1	2591.3	2606.2	2700.5	2840.8	3002.5	3169.7
12.5°	2352.7	2358.1	2374.3	2408.0	2479.4	2488.9	2592.7	2753.1	2941.9	3149.5
15°	2348.6	2359.4	2360.8	2378.3	2437.6	2441.7	2537.4	2696.5	2904.1	3145.5
17.5°	2389.1	2397.2	2385.0	2395.8	2445.7	2452.5	2528.0	2669.5	2892.0	3163.0
20°	2496.9	2503.7	2467.3	2452.5	2488.9	2494.3	2568.4	2687.1	2904.1	3199.4
22.5°	2726.2	2730.2	2641.2	2580.5	2583.2	2585.9	2650.6	2758.5	2951.3	3265.4
25°	3083.4	3080.7	2939.2	2821.9	2754.5	2739.6	2782.8	2874.5	3030.9	3353.1
27.5°	3501.4	3481.2	3339.6	3164.3	3017.4	2995.8	2986.4	3025.5	3144.1	3469.0
30°	3973.3	3954.4	3802.1	3572.8	3369.3	3334.2	3245.2	3225.0	3312.6	3626.8
32.5°	4491.0	4478.9	4296.9	4019.1	3746.8	3706.3	3556.7	3502.7	3571.5	3865.4
35°	4925.1	4914.4	4763.3	4477.5	4144.5	4094.6	3942.3	3881.6	3916.7	4171.5
37.5°	5317.5	5312.1	5182.7	4957.5	4613.7	4553.0	4381.8	4361.6	4354.8	4574.6
40°	5681.5	5668.0	5533.2	5414.6	5159.7	5104.5	4953.5	4935.9	4884.7	5070.7
42.5°	6084.6	6049.6	5854.1	5798.8	5730.0	5684.2	5593.9	5596.6	5483.3	5630.3
45°	6413.6	6393.4	6192.5	6160.1	6234.3	6215.4	6293.6	6313.8	6094.1	6216.8
47.5°	6766.8	6748.0	6578.1	6555.2	6756.1	6761.4	7037.8	7044.6	6690.0	6826.2
50°	7202.3	7175.4	7006.8	7035.1	7260.3	7280.5	7786.1	7740.3	7238.7	7445.0
52.5°	7489.5	7505.7	7469.3	7515.1	7822.5	7841.4	8522.3	8405.0	7782.1	8055.8
55°	7701.2	7733.5	7846.8	7951.9	8415.7	8434.6	9216.6	9037.3	8232.4	8622.0
57.5°	7973.5	7927.7	8139.4	8344.3	8979.3	9029.2	9892.1	9646.7	8631.5	9110.1
60°	8364.5	8332.2	8496.6	8800.0	9610.3	9689.8	10606.6	10195.4	8924.0	9497.0
62.5°	9157.3	9076.4	9102.0	9370.3	10405.8	10510.9	11412.9	10674.1	9069.6	9648.0
65°	10342.4	10203.5	10074.1	10260.1	11526.1	11630.0	12323.0	11050.2	9015.7	9355.5
67.5°	11834.9	11697.4	11538.3	11713.6	13176.4	13258.6	13446.0	11261.9	8591.0	8228.3
70°	13065.8	13014.6	13204.7	13926.0	15812.2	15814.9	14886.0	11086.6	7427.5	5833.9
72.5°	12902.7	12871.7	13873.4	16103.4	19134.3	19062.8	16249.0	9759.9	5003.3	2631.8
75°	10585.1	10786.0	12337.8	16064.3	20327.5	20318.1	15414.5	6204.6	2069.6	1090.7
77.5°	5676.1	5994.3	8009.9	11860.5	15868.8	16107.5	10837.2	2170.7	888.5	698.4
80°	1851.1	2128.9	3192.6	6038.8	10311.4	10266.9	4644.7	852.1	608.1	494.8
82.5°	786.0	818.4	1426.4	2851.5	5291.9	5209.6	1479.0	489.4	427.4	338.4
85°	307.4	343.8	629.6	1318.6	2292.0	2242.1	533.9	242.7	273.7	221.1
87.5°	101.1	122.7	225.2	451.7	713.2	687.6	130.8	83.6	118.6	101.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943639  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3323.4	0°	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4	3323.4
3332.9	2.5°	3351.7	3373.3	3398.9	3436.7	3469.0	3496.0	3524.3	3541.8	3548.6	3568.8
3338.3	5°	3376.0	3423.2	3486.6	3548.6	3609.3	3645.7	3678.0	3694.2	3709.0	3719.8
3353.1	7.5°	3416.5	3477.1	3576.9	3657.8	3709.0	3738.7	3760.3	3754.9	3760.3	3763.0
3369.3	10°	3451.5	3536.4	3655.1	3731.9	3771.0	3772.4	3767.0	3748.1	3738.7	3740.0
3393.5	12.5°	3493.3	3587.7	3715.8	3780.5	3791.3	3761.6	3738.7	3706.3	3694.2	3688.8
3429.9	15°	3549.9	3657.8	3781.8	3806.1	3779.1	3741.4	3702.3	3649.7	3622.7	3601.2
3492.0	17.5°	3618.7	3737.3	3833.1	3815.5	3757.6	3695.5	3632.2	3552.6	3497.3	3474.4
3576.9	20°	3714.4	3820.9	3872.2	3795.3	3707.7	3613.3	3505.4	3408.4	3357.1	3334.2
3684.8	22.5°	3830.4	3932.8	3909.9	3760.3	3636.2	3485.2	3350.4	3278.9	3253.3	3237.1
3823.6	25°	3969.2	4056.9	3936.9	3709.0	3518.9	3315.3	3211.5	3188.6	3176.5	3164.3
3993.5	27.5°	4149.9	4197.1	3957.1	3633.5	3335.6	3134.7	3096.9	3101.0	3096.9	3076.7
4229.4	30°	4388.5	4379.1	3976.0	3510.8	3125.2	2971.5	2974.2	2991.8	2994.5	2981.0
4558.4	32.5°	4702.7	4607.0	3985.4	3351.7	2924.3	2828.6	2831.3	2850.2	2863.7	2840.8
4988.5	35°	5082.9	4872.6	3970.6	3152.2	2769.3	2692.4	2672.2	2677.6	2681.7	2660.1
5510.3	37.5°	5526.5	5170.5	3904.5	2931.1	2641.2	2559.0	2515.8	2479.4	2457.9	2437.6
6100.8	40°	6013.2	5495.4	3783.2	2715.4	2498.3	2417.4	2352.7	2283.9	2211.1	2184.2
6726.4	42.5°	6522.8	5829.8	3636.2	2509.1	2333.8	2267.7	2199.0	2099.2	1990.0	1934.7
7376.2	45°	7051.3	6172.3	3492.0	2305.5	2165.3	2137.0	2057.4	1937.4	1818.8	1748.7
8027.5	47.5°	7569.0	6495.8	3280.3	2100.6	2007.5	2038.5	1976.5	1866.0	1733.8	1623.3
8673.3	50°	8063.9	6799.2	2933.8	1892.9	1879.5	2008.9	1949.6	1790.5	1639.5	1497.9
9306.9	52.5°	8554.6	7044.6	2490.2	1704.2	1810.7	2000.8	1914.5	1739.2	1554.5	1406.2
9902.9	55°	8971.2	7171.3	2062.8	1542.4	1710.9	1932.0	1872.7	1678.6	1434.5	1276.8
10311.4	57.5°	9208.5	7068.8	1706.9	1383.3	1573.4	1818.8	1801.3	1549.1	1291.6	1170.3
10390.9	60°	9106.0	6653.6	1415.7	1244.4	1442.6	1696.1	1677.2	1421.1	1182.4	1067.8
9964.9	62.5°	8541.1	5862.2	1185.1	1123.1	1324.0	1570.7	1553.2	1322.6	1098.8	988.3
8833.7	65°	7403.2	4768.7	1005.8	1022.0	1204.0	1419.7	1445.3	1240.4	1032.8	924.9
6834.3	67.5°	5646.4	3454.2	865.6	934.3	1086.7	1271.4	1345.5	1181.1	977.5	875.0
3954.4	70°	3218.3	1961.7	746.9	849.4	982.9	1133.9	1268.7	1133.9	918.2	833.2
1481.7	72.5°	1220.2	900.6	645.8	764.5	883.1	1017.9	1183.8	1059.7	849.4	786.0
765.8	75°	651.2	548.7	543.3	664.7	768.5	904.7	1077.2	986.9	798.2	830.5
529.9	77.5°	443.6	388.3	454.4	569.0	643.1	779.3	964.0	876.4	691.6	689.0
366.7	80°	307.4	275.0	369.4	458.4	497.5	655.2	841.3	752.3	563.6	525.8
226.5	82.5°	184.7	179.3	276.4	342.5	351.9	505.6	697.0	631.0	461.1	401.8
134.8	85°	101.1	106.5	176.6	200.9	204.9	353.2	546.0	488.1	354.6	298.0
48.5	87.5°	28.3	36.4	64.7	79.5	98.4	183.4	324.9	289.9	178.0	124.0
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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<u>180°</u>
3323.4
3567.5
3722.5
3767.0
3742.7
3686.1
3607.9
3475.8
3331.5
3239.8
3164.3
3080.7
2987.7
2851.5
2674.9
2451.1
2196.3
1941.5
1743.3
1611.2
1485.8
1390.0
1263.3
1154.1
1051.6
970.7
907.4
858.8
822.4
775.2
857.5
635.0
502.9
404.5
300.7
124.0
0.0

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