

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: P943112

Luminaire Tested: **GALN-SB7B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28765 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

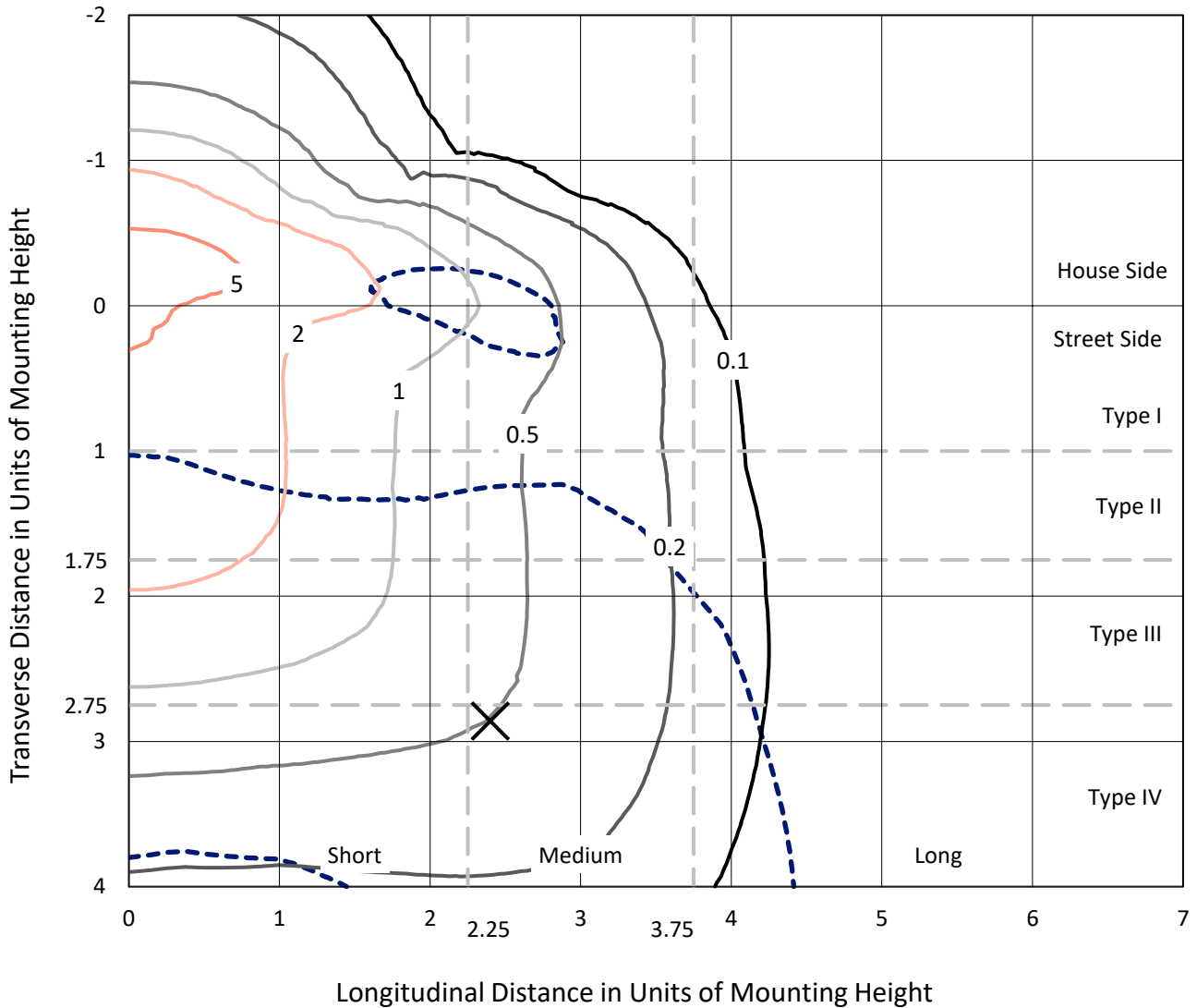
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

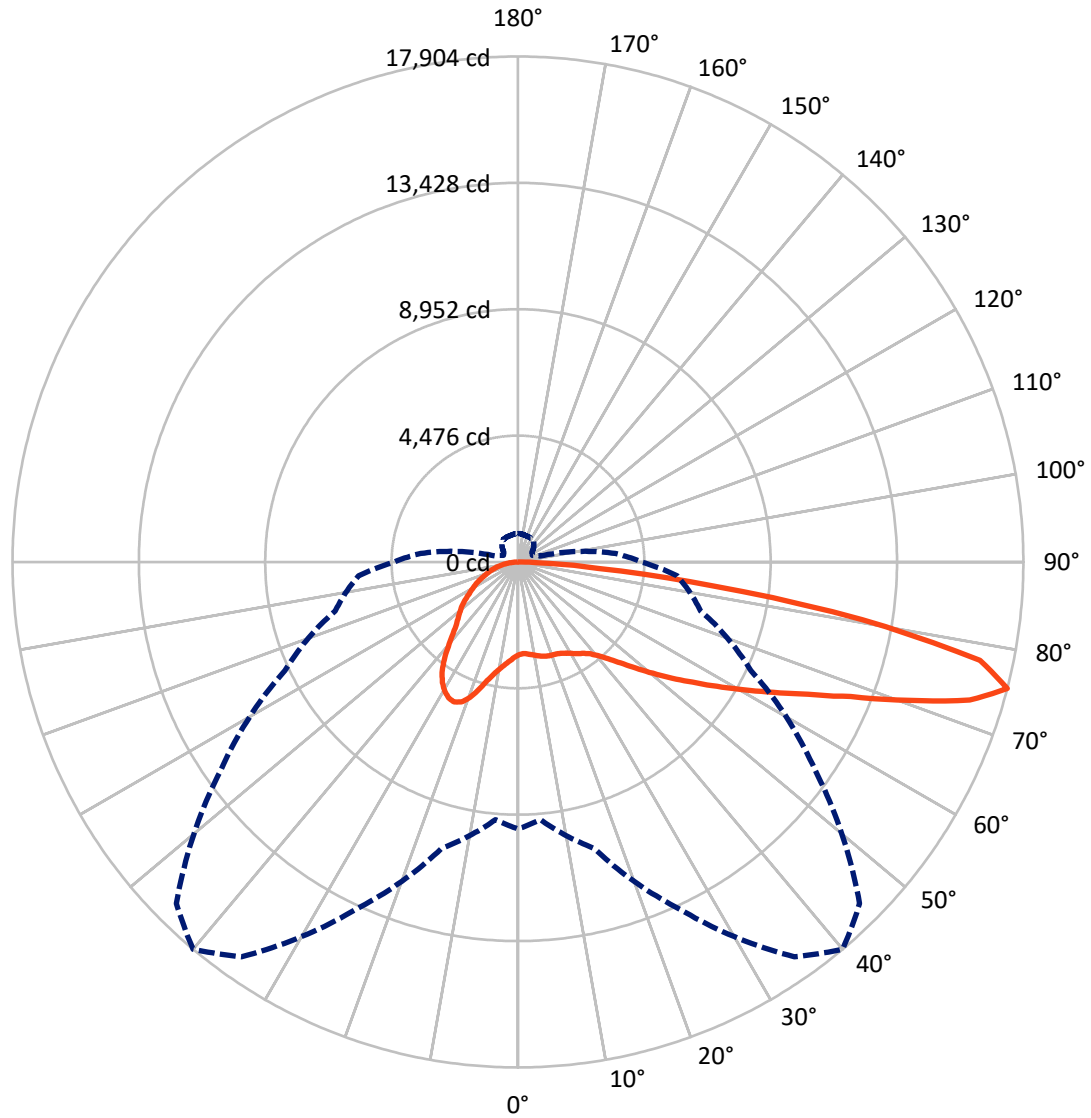
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8912.4	0.0	8912.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19852.6	0.0	19852.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	28765.0	0.0	28765.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	1.1
10°-20°	1102.4	3.8
20°-30°	2012.8	7.0
30°-40°	2854.8	9.9
40°-50°	3854.8	13.4
50°-60°	5185.7	18.0
60°-70°	6581.9	22.9
70°-80°	5973.5	20.8
80°-90°	870.7	3.0
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°	28765.0	100.0
0°-180°	28765.0	100.0

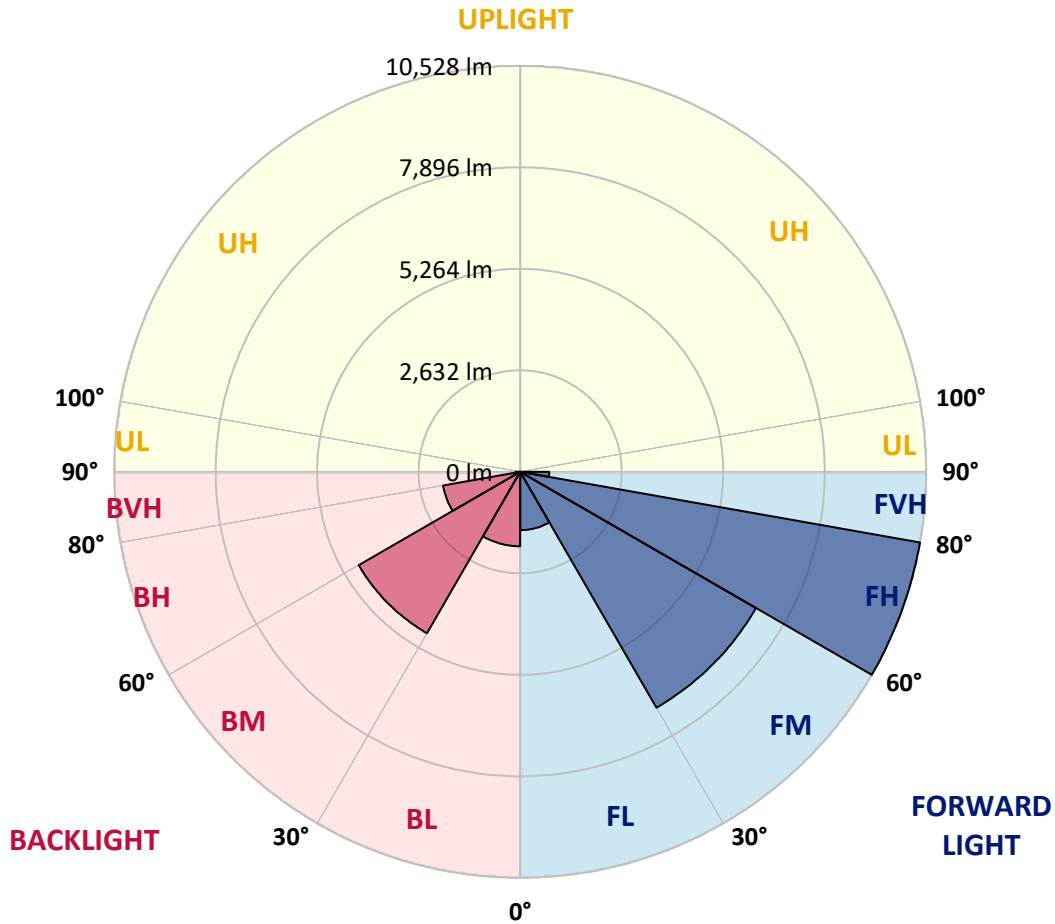


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.1	5.3			
FM (30°-60°)	7061.2	24.5			
FH (60°-80°)	10527.5	36.6			G4/12000
FVH (80°-90°)	750.9	2.6			G5
BL (0°-30°)	1930.5	6.7	B3/2500		
BM (30°-60°)	4834.2	16.8	B3/5000		
BH (60°-80°)	2027.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	119.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3
2.5°	3239.0	3257.3	3252.7	3246.6	3246.6	3248.1	3246.6	3257.3	3268.0	3278.6
5°	3272.5	3290.8	3281.7	3274.1	3268.0	3266.4	3261.9	3260.3	3266.4	3280.2
7.5°	3338.1	3356.4	3342.7	3329.0	3316.8	3310.7	3304.6	3295.4	3290.8	3298.5
10°	3411.4	3429.7	3412.9	3388.5	3368.7	3361.0	3354.9	3345.8	3339.7	3344.2
12.5°	3484.6	3502.9	3480.0	3446.5	3420.5	3415.9	3408.3	3405.3	3403.7	3402.2
15°	3553.3	3568.5	3539.5	3499.9	3472.4	3464.8	3457.1	3461.7	3469.3	3478.5
17.5°	3606.7	3621.9	3579.2	3527.3	3501.4	3498.3	3493.8	3509.0	3530.4	3553.3
20°	3655.5	3670.7	3615.8	3545.6	3515.1	3515.1	3516.6	3548.7	3579.2	3612.8
22.5°	3724.1	3736.3	3669.2	3573.1	3528.8	3531.9	3544.1	3576.1	3614.3	3660.1
25°	3826.3	3835.5	3753.1	3625.0	3574.6	3583.8	3594.4	3609.7	3646.3	3699.7
27.5°	3991.1	3998.7	3890.4	3716.5	3640.2	3655.5	3670.7	3660.1	3676.8	3722.6
30°	4223.0	4227.6	4090.3	3859.9	3751.6	3759.2	3762.3	3718.0	3686.0	3722.6
32.5°	4497.6	4496.1	4332.9	4033.8	3878.2	3870.6	3844.7	3757.7	3682.9	3715.0
35°	4923.3	4906.5	4696.0	4277.9	4021.6	3974.3	3913.3	3801.9	3698.2	3707.3
37.5°	5628.1	5576.3	5284.9	4677.7	4235.2	4114.7	4024.7	3873.6	3731.8	3704.3
40°	6423.0	6357.4	6037.0	5225.4	4555.6	4361.9	4216.9	3975.9	3786.7	3718.0
42.5°	7365.9	7272.8	6928.0	5870.7	4961.4	4680.7	4462.5	4105.5	3867.5	3762.3
45°	8523.8	8400.3	7912.1	6598.5	5472.5	5098.7	4807.3	4302.4	3991.1	3847.7
47.5°	9694.0	9724.5	9030.4	7431.5	6085.8	5614.4	5239.1	4598.3	4171.1	3985.0
50°	10937.4	10958.8	10142.6	8354.5	6781.5	6197.2	5724.3	4929.4	4421.4	4180.3
52.5°	11907.8	11910.8	11152.6	9320.2	7506.2	6838.0	6247.6	5307.8	4711.2	4439.7
55°	12515.0	12507.3	11860.5	10234.1	8339.2	7510.8	6827.3	5738.0	5065.2	4744.8
57.5°	12955.9	12933.0	12348.7	11019.8	9227.2	8305.7	7483.3	6226.2	5483.2	5107.9
60°	13123.7	13110.0	12679.7	11698.7	10160.9	9184.5	8240.1	6772.4	5957.7	5536.6
62.5°	13187.8	13213.7	13004.7	12356.3	11160.2	10157.8	9071.6	7425.4	6491.7	6021.8
65°	13413.6	13460.9	13418.2	13216.8	12289.2	11297.5	10174.6	8201.9	7074.5	6542.0
67.5°	13860.6	13907.9	13926.2	14246.6	13668.4	12717.9	11550.7	9169.2	7756.4	7082.1
70°	13849.9	13836.2	14159.6	15065.9	15395.4	14684.4	13405.9	10359.2	8569.6	7530.6
72.5°	12606.5	12496.7	13261.0	15056.7	16832.6	16738.0	15671.5	11894.0	9271.4	7585.6
75°	9457.5	9164.6	10514.8	13569.2	17072.1	17903.6	17111.8	12846.0	9105.1	6702.2
77.5°	4044.5	3750.1	5341.3	10044.9	15279.5	16736.5	15790.5	11207.5	7268.2	4432.0
80°	1058.8	1057.3	1614.1	4554.1	10391.2	12359.3	10842.8	7237.7	4152.8	1583.6
82.5°	437.9	427.2	593.5	1771.3	5077.4	6935.6	5660.2	3228.3	1499.7	428.7
85°	163.2	161.7	288.3	611.8	1791.1	2860.6	2070.3	825.4	373.8	209.0
87.5°	45.8	44.2	62.6	212.1	436.3	662.1	354.0	135.8	105.3	82.4
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°
3289.3	0°	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3
3295.4	2.5°	3300.0	3307.6	3321.4	3332.0	3345.8	3361.0	3382.4	3396.1	3409.8	3419.0
3303.0	5°	3313.7	3330.5	3365.6	3400.7	3441.9	3480.0	3524.3	3556.3	3582.2	3589.9
3330.5	7.5°	3344.2	3371.7	3431.2	3490.7	3556.3	3618.9	3682.9	3737.9	3782.1	3798.9
3379.3	10°	3397.6	3434.3	3518.2	3602.1	3689.0	3785.2	3867.5	3946.9	4009.4	4035.4
3437.3	12.5°	3464.8	3510.5	3620.4	3736.3	3856.9	3989.6	4096.4	4194.0	4271.8	4306.9
3518.2	15°	3551.7	3611.2	3751.6	3907.2	4084.2	4268.8	4404.6	4512.9	4599.9	4642.6
3602.1	17.5°	3646.3	3725.7	3902.6	4137.6	4390.8	4633.4	4792.1	4871.4	4961.4	5002.6
3679.9	20°	3737.9	3835.5	4088.8	4430.5	4767.7	5025.5	5153.7	5175.0	5181.1	5185.7
3753.1	22.5°	3832.4	3963.7	4322.2	4799.7	5161.3	5339.8	5358.1	5266.6	5138.4	5078.9
3824.8	25°	3936.2	4110.1	4627.3	5207.1	5500.0	5521.4	5381.0	5158.2	4915.7	4804.3
3882.8	27.5°	4036.9	4279.5	4993.5	5596.1	5744.1	5556.4	5254.4	4938.6	4645.6	4528.1
3924.0	30°	4137.6	4473.2	5397.8	5936.3	5855.5	5469.5	5054.5	4702.1	4407.6	4284.0
3960.6	32.5°	4239.8	4699.0	5863.1	6182.0	5835.6	5284.9	4805.8	4436.6	4177.2	4047.6
3992.6	35°	4355.8	4976.7	6304.0	6316.2	5702.9	5013.3	4477.8	4119.3	3893.5	3789.7
4030.8	37.5°	4506.8	5329.1	6693.1	6349.8	5471.0	4615.1	4070.5	3744.0	3557.8	3510.5
4087.2	40°	4694.4	5753.3	6990.6	6296.4	5127.7	4131.5	3625.0	3364.1	3258.8	3269.5
4163.5	42.5°	4938.6	6227.7	7199.6	6159.1	4650.2	3632.6	3234.4	3118.4	3168.8	3211.5
4277.9	45°	5255.9	6720.5	7329.3	5925.7	4110.1	3210.0	3004.0	3031.5	3069.6	3074.2
4462.5	47.5°	5661.7	7219.4	7414.7	5573.2	3559.4	2912.5	2857.6	2863.7	2856.0	2824.0
4738.7	50°	6168.2	7704.6	7491.0	5106.4	3091.0	2726.3	2653.1	2631.8	2526.5	2422.7
5106.4	52.5°	6744.9	8150.1	7523.0	4526.6	2726.3	2570.7	2451.7	2317.5	2120.7	2088.6
5568.6	55°	7385.7	8562.0	7440.6	3814.1	2419.7	2370.9	2190.8	2029.1	2007.8	1980.3
6177.4	57.5°	8151.6	9006.0	7272.8	3019.3	2105.4	2137.4	1962.0	1980.3	1942.2	1899.4
6960.0	60°	8989.2	9465.2	6978.4	2294.6	1780.4	1846.0	1902.5	1901.0	1890.3	1855.2
7785.4	62.5°	9742.8	9767.3	6398.6	1757.6	1495.1	1620.2	1774.3	1772.8	1763.7	1743.8
8647.4	65°	10191.4	9721.5	5431.3	1383.8	1260.2	1434.1	1600.4	1612.6	1614.1	1612.6
9295.8	67.5°	10112.1	9186.0	4104.0	1101.5	1066.4	1244.9	1428.0	1444.8	1457.0	1460.1
9378.2	70°	9215.0	8009.7	2676.0	878.8	894.0	1078.6	1264.8	1281.6	1292.2	1304.4
8137.9	72.5°	7182.8	5889.0	1531.8	711.0	743.0	935.2	1103.0	1122.9	1129.0	1151.9
5663.2	75°	4377.1	3463.2	826.9	559.9	610.3	799.4	942.9	965.7	976.4	1003.9
2781.3	77.5°	2081.0	1499.7	471.4	436.3	491.3	653.0	796.4	822.3	793.3	808.6
767.4	80°	703.3	556.9	297.5	332.6	375.3	509.6	637.7	663.7	602.6	599.6
254.8	82.5°	245.6	225.8	189.2	221.2	242.6	364.6	482.1	515.7	448.5	447.0
114.4	85°	96.1	91.5	105.3	120.5	144.9	224.3	317.3	334.1	276.1	222.7
33.6	87.5°	19.8	21.4	25.9	27.5	44.2	77.8	114.4	140.4	111.4	94.6
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°
3289.3
3412.9
3592.9
3800.4
4036.9
4306.9
4639.5
5001.1
5197.9
5095.7
4821.1
4541.9
4297.8
4064.3
3812.6
3544.1
3306.1
3251.2
3104.7
2848.4
2436.5
2099.3
1984.9
1891.8
1843.0
1736.2
1612.6
1463.1
1310.5
1161.0
1006.9
796.4
593.5
425.7
219.7
87.0
0.0

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