

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: P944319

Luminaire Tested: **GALN-SB9A-950-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944319  
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-SB9A-950-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

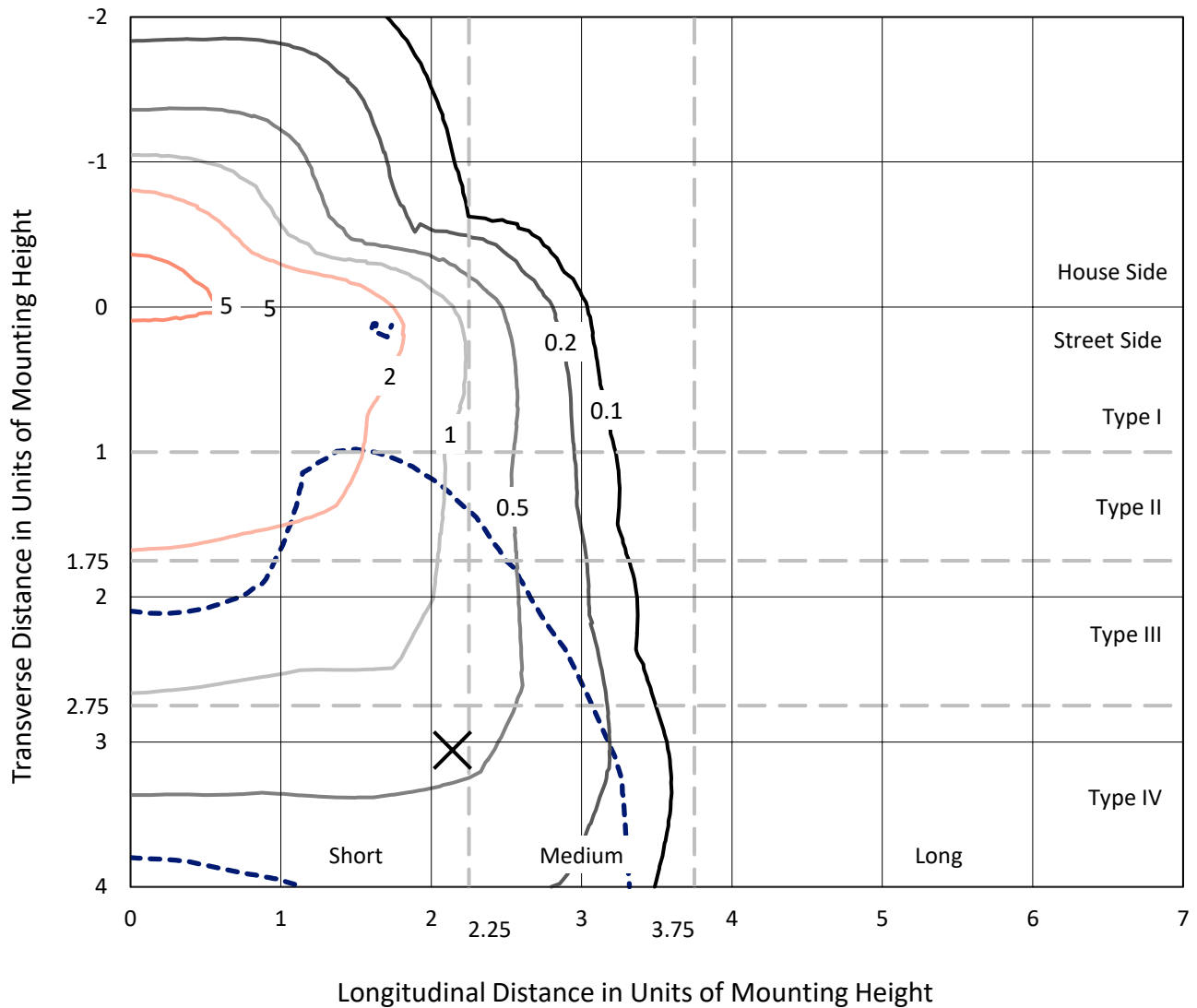
Lumens per Lamp: N/A  
Luminaire Lumens: 28093 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

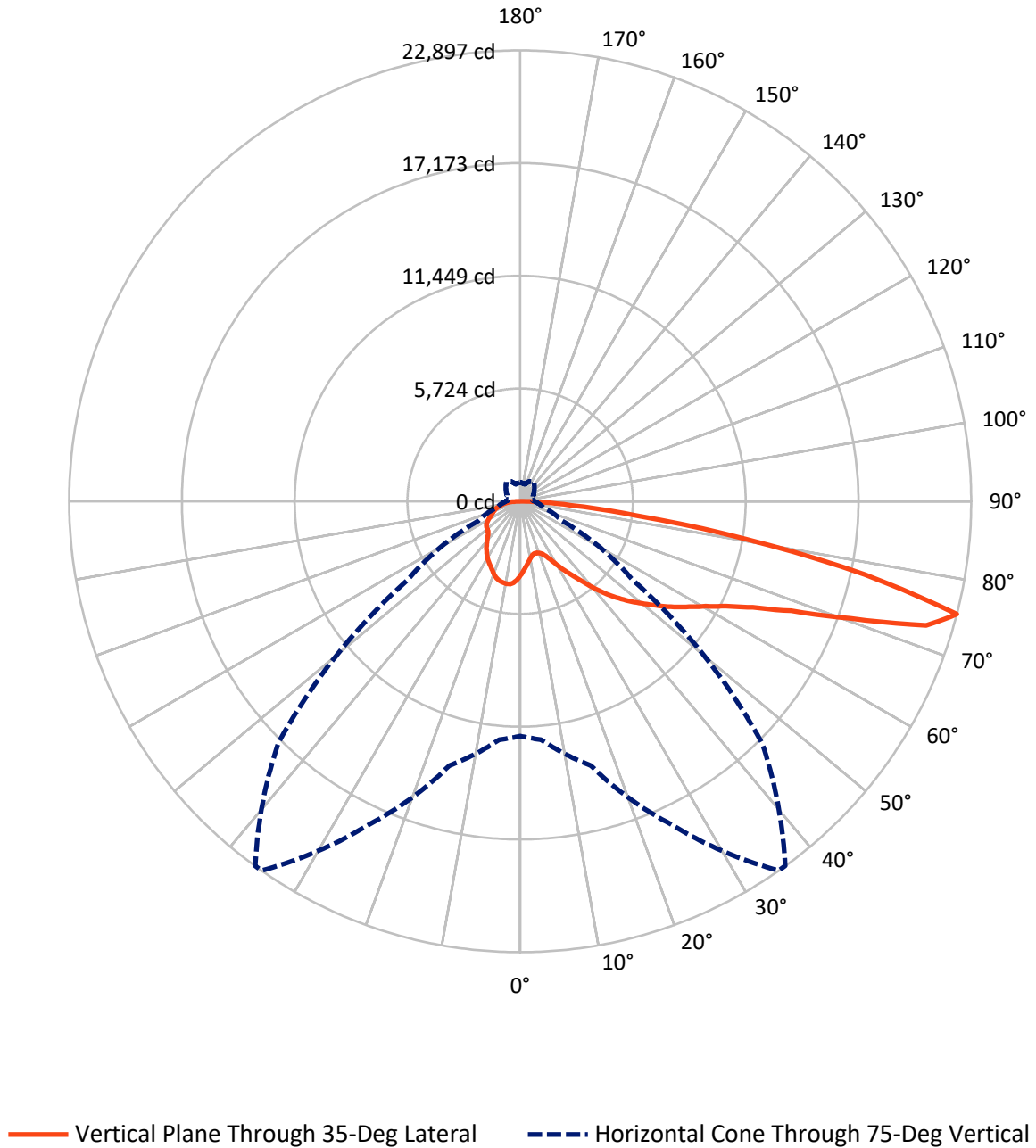
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6685.4	0.0	6685.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	21407.6	0.0	21407.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	28093.0	0.0	28093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.4	1.3
10°-20°	1022.4	3.6
20°-30°	1716.8	6.1
30°-40°	2668.2	9.5
40°-50°	3960.3	14.1
50°-60°	5467.4	19.5
60°-70°	6633.2	23.6
70°-80°	5481.8	19.5
80°-90°	788.5	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°	28093.0	100.0
0°-180°	28093.0	100.0

**Coefficient of Utilization**



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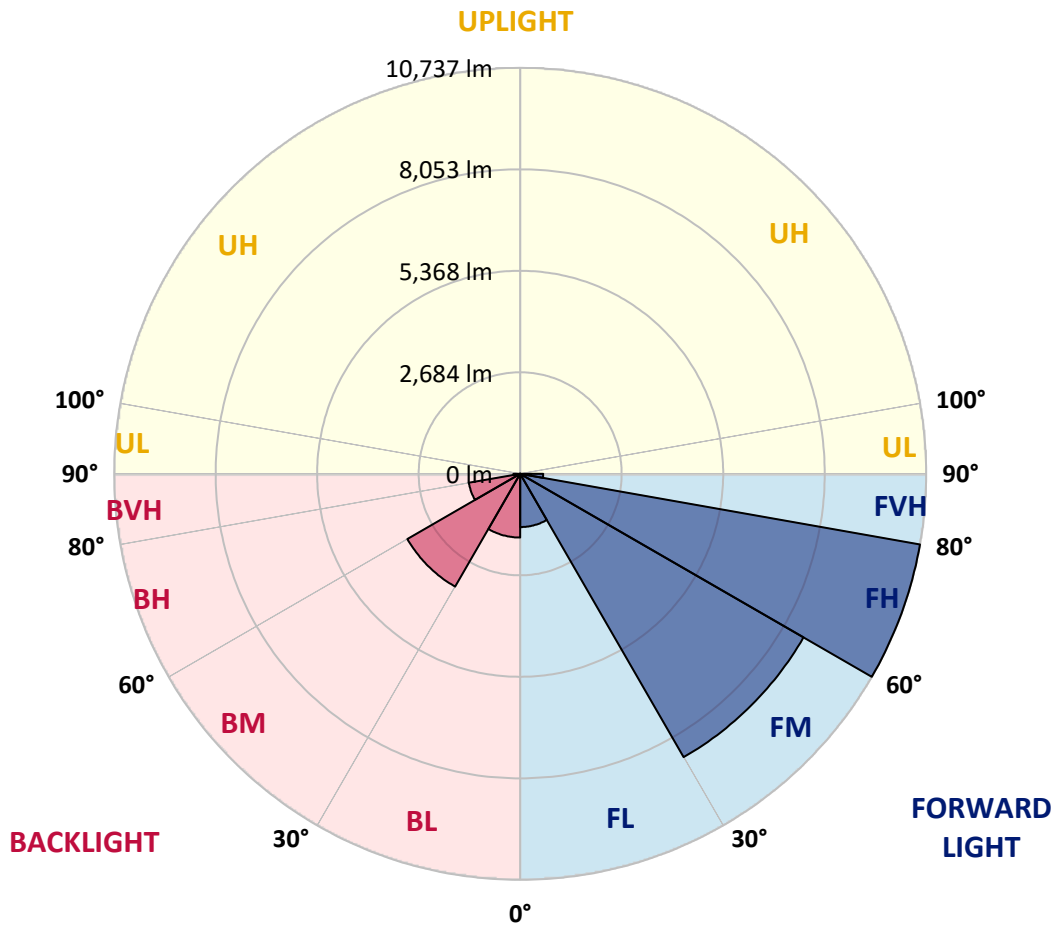
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.8	5.0			
FM (30°-60°)	8651.1	30.8			
FH (60°-80°)	10736.7	38.2			G4/12000
FVH (80°-90°)	610.9	2.2			G4/750
BL (0°-30°)	1684.8	6.0	B3/2500		
BM (30°-60°)	3444.7	12.3	B3/5000		
BH (60°-80°)	1378.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	177.5	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6
2.5°	3452.0	3473.3	3482.4	3477.8	3500.6	3497.6	3529.4	3568.9	3623.6	3676.8
5°	3186.2	3209.0	3228.7	3247.0	3291.0	3304.7	3354.8	3430.7	3531.0	3632.7
7.5°	2938.7	2958.4	2988.8	3022.2	3096.6	3110.3	3193.8	3312.3	3452.0	3600.8
10°	2736.7	2756.4	2788.3	2826.3	2918.9	2935.6	3041.9	3199.9	3382.1	3570.5
12.5°	2650.1	2656.2	2674.4	2712.4	2792.9	2803.5	2920.4	3101.2	3313.8	3547.7
15°	2645.6	2657.7	2659.2	2679.0	2745.8	2750.4	2858.2	3037.4	3271.3	3543.1
17.5°	2691.1	2700.2	2686.6	2698.7	2754.9	2762.5	2847.6	3007.0	3257.6	3562.9
20°	2812.6	2820.2	2779.2	2762.5	2803.5	2809.6	2893.1	3026.8	3271.3	3603.9
22.5°	3070.8	3075.4	2975.1	2906.8	2909.8	2912.9	2985.8	3107.2	3324.4	3678.3
25°	3473.3	3470.2	3310.8	3178.6	3102.7	3086.0	3134.6	3237.9	3414.0	3777.0
27.5°	3944.0	3921.3	3761.8	3564.4	3398.8	3374.5	3363.9	3408.0	3541.6	3907.6
30°	4475.6	4454.3	4282.7	4024.5	3795.2	3755.7	3655.5	3632.7	3731.4	4085.3
32.5°	5058.8	5045.1	4840.1	4527.2	4220.5	4174.9	4006.3	3945.6	4023.0	4354.1
35°	5547.8	5535.6	5365.5	5043.6	4668.5	4612.3	4440.7	4372.3	4411.8	4698.8
37.5°	5989.7	5983.7	5837.9	5584.2	5197.0	5128.6	4935.8	4913.0	4905.4	5152.9
40°	6399.8	6384.6	6232.7	6099.1	5812.0	5749.8	5579.7	5559.9	5502.2	5711.8
42.5°	6853.9	6814.4	6594.2	6531.9	6454.5	6402.8	6301.1	6304.1	6176.5	6342.1
45°	7224.4	7201.6	6975.4	6938.9	7022.4	7001.2	7089.3	7112.0	6864.5	7002.7
47.5°	7622.3	7601.1	7409.7	7383.9	7610.2	7616.3	7927.6	7935.2	7535.8	7689.2
50°	8112.9	8082.5	7892.7	7924.5	8178.2	8201.0	8770.5	8718.8	8153.9	8386.2
52.5°	8436.3	8454.6	8413.6	8465.2	8811.5	8832.7	9599.7	9467.5	8765.9	9074.2
55°	8674.8	8711.2	8838.8	8957.3	9479.7	9501.0	10381.8	10179.8	9273.1	9712.1
57.5°	8981.6	8929.9	9168.4	9399.2	10114.5	10170.7	11142.7	10866.3	9722.7	10261.8
60°	9422.0	9385.5	9570.8	9912.5	10825.3	10914.9	11947.6	11484.4	10052.2	10697.7
62.5°	10315.0	10223.9	10252.7	10554.9	11721.3	11839.7	12855.8	12023.5	10216.3	10867.8
65°	11649.9	11493.5	11347.7	11557.3	12983.3	13100.3	13880.9	12447.2	10155.5	10538.2
67.5°	13331.1	13176.2	12997.0	13194.4	14842.2	14934.8	15145.9	12685.7	9677.1	9268.6
70°	14717.7	14660.0	14874.1	15686.6	17811.3	17814.3	16767.9	12488.2	8366.5	6571.4
72.5°	14533.9	14499.0	15627.4	18139.3	21553.3	21472.8	18303.3	10993.8	5635.9	2964.5
75°	11923.3	12149.6	13897.6	18095.2	22897.4	22886.7	17363.2	6989.0	2331.2	1228.6
77.5°	6393.7	6752.1	9022.6	13360.0	17875.0	18143.8	12207.3	2445.1	1000.8	786.7
80°	2085.2	2398.0	3596.3	6802.2	11615.0	11564.9	5231.9	959.8	684.9	557.4
82.5°	885.4	921.8	1606.8	3212.0	5960.9	5868.2	1666.0	551.3	481.4	381.2
85°	346.3	387.3	709.2	1485.3	2581.8	2525.6	601.4	273.4	308.3	249.1
87.5°	113.9	138.2	253.6	508.8	803.4	774.5	147.3	94.2	133.6	113.9
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°
3743.6	0°	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6	3743.6
3754.2	2.5°	3775.5	3799.8	3828.6	3871.2	3907.6	3938.0	3969.9	3989.6	3997.2	4020.0
3760.3	5°	3802.8	3856.0	3927.3	3997.2	4065.5	4106.6	4143.0	4161.2	4177.9	4190.1
3777.0	7.5°	3848.4	3916.7	4029.1	4120.2	4177.9	4211.3	4235.6	4229.6	4235.6	4238.7
3795.2	10°	3887.9	3983.5	4117.2	4203.7	4247.8	4249.3	4243.2	4222.0	4211.3	4212.9
3822.6	12.5°	3934.9	4041.2	4185.5	4258.4	4270.6	4237.2	4211.3	4174.9	4161.2	4155.1
3863.6	15°	3998.7	4120.2	4259.9	4287.3	4256.9	4214.4	4170.3	4111.1	4080.7	4056.4
3933.4	17.5°	4076.2	4209.8	4317.6	4297.9	4232.6	4162.7	4091.4	4001.8	3939.5	3913.7
4029.1	20°	4184.0	4304.0	4361.7	4275.1	4176.4	4070.1	3948.6	3839.3	3781.5	3755.7
4150.6	22.5°	4314.6	4430.0	4404.2	4235.6	4095.9	3925.8	3774.0	3693.5	3664.6	3646.4
4307.0	25°	4471.0	4569.8	4434.6	4177.9	3963.8	3734.5	3617.5	3591.7	3578.0	3564.4
4498.4	27.5°	4674.5	4727.7	4457.4	4092.9	3757.3	3531.0	3488.4	3493.0	3488.4	3465.7
4764.1	30°	4943.4	4932.7	4478.6	3954.7	3520.3	3347.2	3350.2	3370.0	3373.0	3357.8
5134.7	32.5°	5297.2	5189.4	4489.3	3775.5	3294.0	3186.2	3189.3	3210.5	3225.7	3199.9
5619.2	35°	5725.5	5488.6	4472.6	3550.7	3119.4	3032.8	3010.1	3016.1	3020.7	2996.4
6206.9	37.5°	6225.1	5824.2	4398.1	3301.6	2975.1	2882.5	2833.9	2792.9	2768.6	2745.8
6872.1	40°	6773.4	6190.2	4261.5	3058.7	2814.1	2723.0	2650.1	2572.7	2490.7	2460.3
7576.8	42.5°	7347.4	6566.8	4095.9	2826.3	2628.9	2554.4	2477.0	2364.6	2241.6	2179.3
8308.8	45°	7942.8	6952.6	3933.4	2597.0	2439.0	2407.1	2317.5	2182.4	2048.7	1969.7
9042.3	47.5°	8526.0	7317.1	3695.0	2366.1	2261.3	2296.3	2226.4	2101.9	1953.0	1828.5
9769.8	50°	9083.3	7658.8	3304.7	2132.2	2117.1	2262.9	2196.0	2016.8	1846.7	1687.3
10483.5	52.5°	9636.1	7935.2	2805.0	1919.6	2039.6	2253.7	2156.5	1959.1	1751.1	1584.0
11154.8	55°	10105.4	8077.9	2323.6	1737.4	1927.2	2176.3	2109.5	1890.8	1615.9	1438.2
11615.0	57.5°	10372.7	7962.5	1922.7	1558.2	1772.3	2048.7	2029.0	1745.0	1454.9	1318.2
11704.6	60°	10257.3	7494.8	1594.6	1401.8	1625.0	1910.5	1889.3	1600.7	1331.9	1202.8
11224.7	62.5°	9620.9	6603.3	1334.9	1265.1	1491.4	1769.3	1749.5	1489.8	1237.7	1113.2
9950.5	65°	8339.2	5371.6	1132.9	1151.2	1356.2	1599.2	1628.0	1397.2	1163.3	1041.8
7698.3	67.5°	6360.3	3890.9	975.0	1052.5	1224.1	1432.1	1515.7	1330.4	1101.1	985.6
4454.3	70°	3625.1	2209.7	841.4	956.8	1107.1	1277.2	1429.1	1277.2	1034.2	938.6
1669.0	72.5°	1374.4	1014.5	727.5	861.1	994.7	1146.6	1333.4	1193.7	956.8	885.4
862.6	75°	733.5	618.1	612.0	748.7	865.7	1019.0	1213.4	1111.7	899.1	935.5
596.8	77.5°	499.7	437.4	511.8	640.9	724.4	877.8	1085.9	987.2	779.1	776.1
413.1	80°	346.3	309.8	416.1	516.4	560.4	738.1	947.7	847.4	634.8	592.3
255.1	82.5°	208.1	202.0	311.3	385.7	396.4	569.5	785.2	710.7	519.4	452.6
151.9	85°	113.9	120.0	198.9	226.3	230.8	397.9	615.1	549.8	399.4	335.6
54.7	87.5°	31.9	41.0	72.9	89.6	110.9	206.5	366.0	326.5	200.5	139.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3743.6
4018.5
4193.1
4243.2
4215.9
4152.1
4064.0
3915.2
3752.7
3649.4
3564.4
3470.2
3365.4
3212.0
3013.1
2761.0
2474.0
2186.9
1963.7
1814.8
1673.6
1565.8
1423.0
1300.0
1184.6
1093.5
1022.1
967.4
926.4
873.2
965.9
715.3
566.5
455.6
338.7
139.7
0.0

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