

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: P954111

Luminaire Tested: **GALN-SB7B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27804 lumens
Efficiency: N/A
Efficacy: 108.3 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

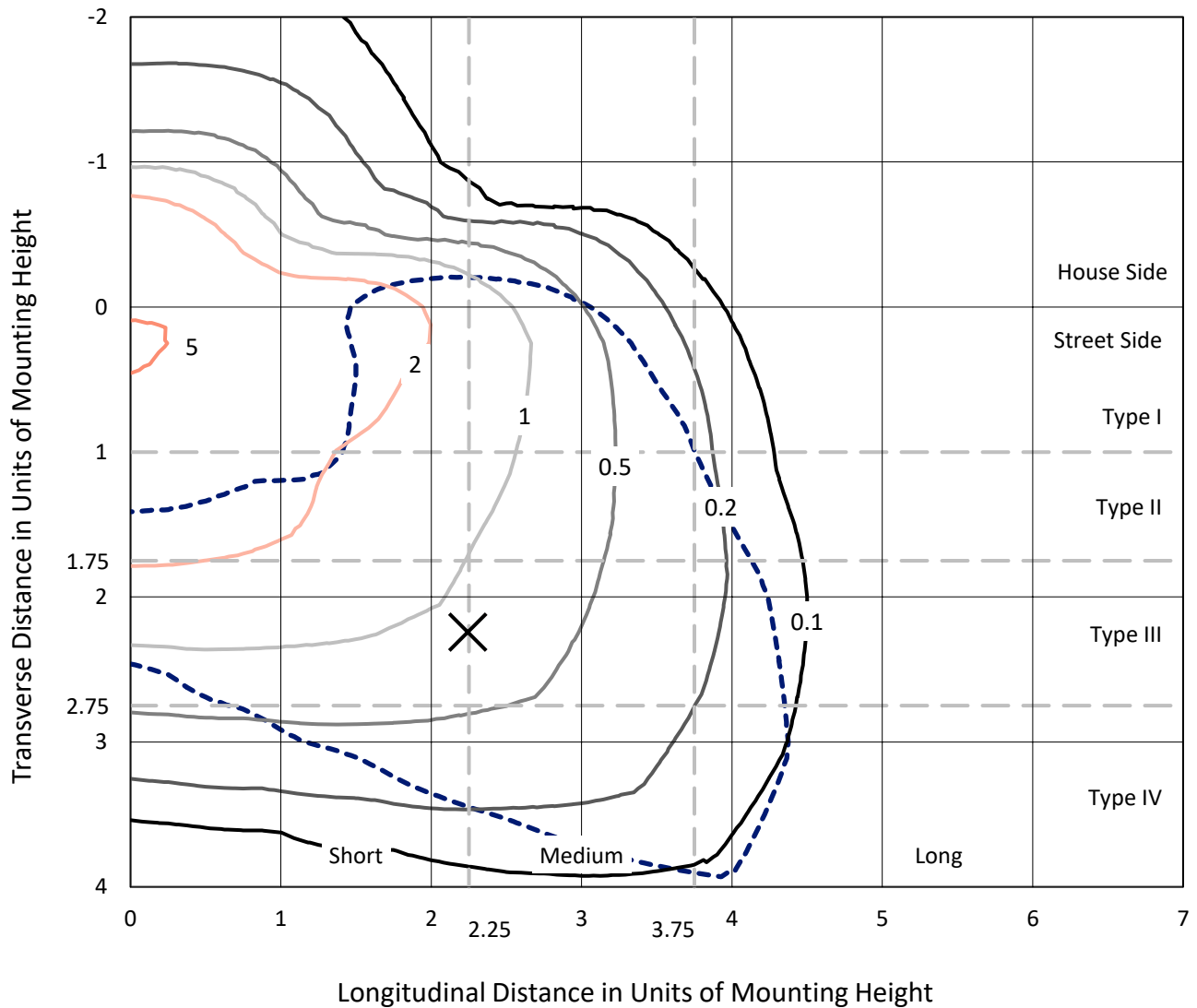
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

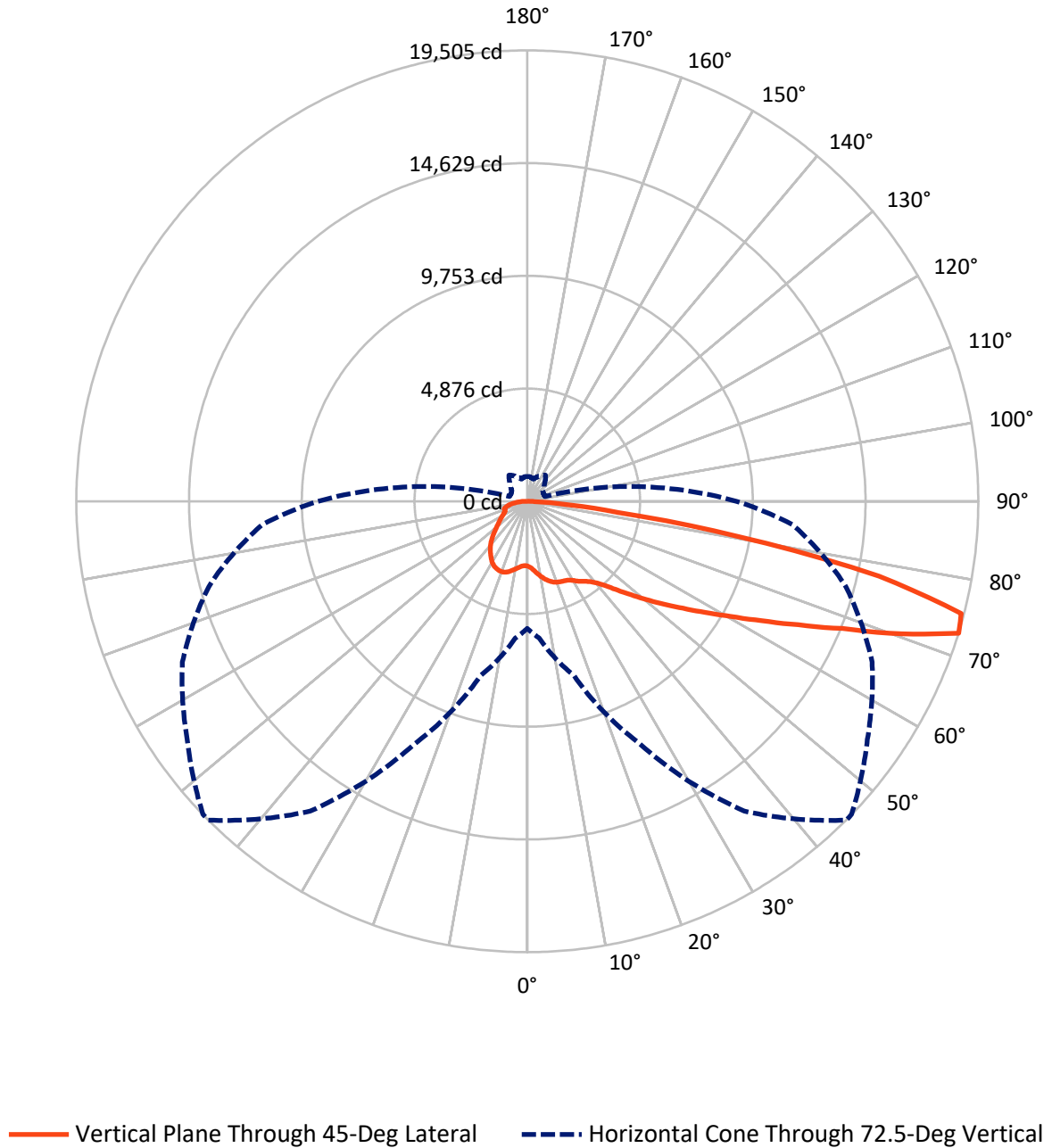
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6285.5	0.0	6285.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21518.5	0.0	21518.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	27804.0	0.0	27804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.0
10°-20°	951.8	3.4
20°-30°	1655.8	6.0
30°-40°	2373.6	8.5
40°-50°	3342.2	12.0
50°-60°	5119.3	18.4
60°-70°	7416.0	26.7
70°-80°	5922.2	21.3
80°-90°	737.6	2.7
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°	27804.0	100.0
0°-180°	27804.0	100.0



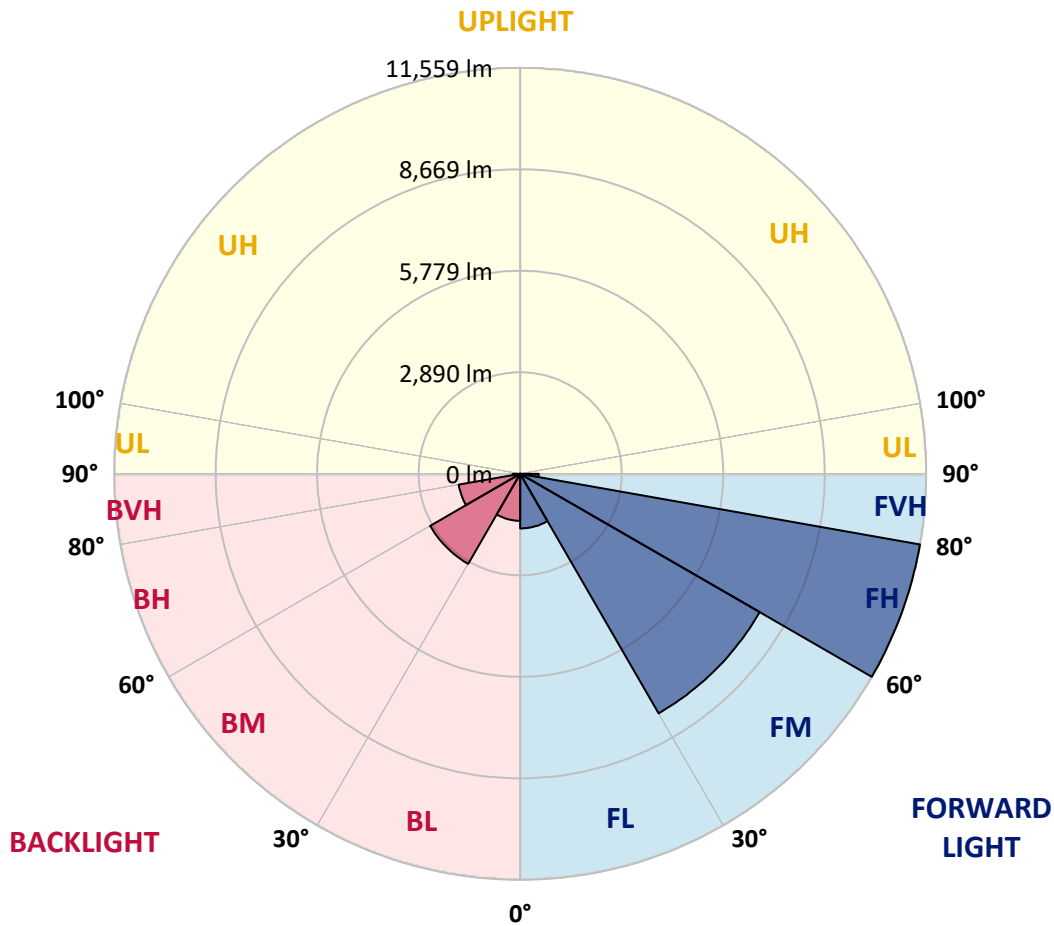
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.8	5.6			
FM (30°-60°)	7875.5	28.3			
FH (60°-80°)	11558.9	41.6			G4/12000
FVH (80°-90°)	529.2	1.9			G4/750
BL (0°-30°)	1338.2	4.8	B3/2500		
BM (30°-60°)	2959.6	10.6	B3/5000		
BH (60°-80°)	1779.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	208.4	0.7			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°	45°	46°	55°	65°	75°
0°	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9
2.5°	2914.7	2933.8	2916.2	2900.1	2892.8	2873.7	2872.3	2860.5	2853.2	2832.7
5°	3118.3	3143.2	3113.9	3081.7	3052.4	3005.5	2999.7	2966.0	2927.9	2884.0
7.5°	3348.3	3370.3	3336.6	3288.2	3237.0	3159.3	3157.9	3096.4	3036.3	2961.6
10°	3548.9	3578.2	3532.8	3466.9	3402.5	3314.6	3304.3	3234.0	3157.9	3061.2
12.5°	3726.2	3746.7	3702.7	3622.2	3547.5	3459.6	3446.4	3368.8	3283.8	3174.0
15°	3866.8	3893.1	3834.6	3748.1	3669.0	3582.6	3570.9	3500.6	3415.7	3299.9
17.5°	3959.1	3981.0	3921.0	3824.3	3748.1	3676.4	3667.6	3609.0	3534.3	3417.1
20°	3994.2	4017.6	3954.7	3856.5	3786.2	3730.6	3726.2	3683.7	3632.4	3525.5
22.5°	4029.4	4051.3	3969.3	3866.8	3805.3	3770.1	3768.6	3740.8	3720.3	3632.4
25°	4171.4	4177.3	4067.4	3919.5	3831.6	3800.9	3799.4	3797.9	3806.7	3737.9
27.5°	4294.5	4293.0	4199.3	4060.1	3923.9	3859.5	3858.0	3872.6	3900.5	3843.3
30°	4474.6	4458.5	4347.2	4202.2	4077.7	3978.1	3969.3	3956.1	3978.1	3932.7
32.5°	4856.9	4805.6	4625.5	4367.7	4205.1	4129.0	4117.2	4035.2	4044.0	4016.2
35°	5404.7	5337.3	5097.1	4681.2	4363.3	4254.9	4249.1	4145.1	4127.5	4102.6
37.5°	6056.5	5973.0	5693.3	5135.2	4635.7	4401.4	4392.6	4298.9	4227.1	4200.7
40°	6711.2	6605.8	6374.3	5688.9	5037.1	4646.0	4618.2	4476.1	4394.1	4350.1
42.5°	7346.9	7259.0	7061.3	6309.9	5532.1	5003.4	4941.9	4698.7	4637.2	4596.2
45°	7909.3	7830.2	7685.2	6973.4	6112.2	5489.7	5429.6	5032.7	5013.6	5013.6
47.5°	8366.3	8348.7	8194.9	7650.1	6796.2	6043.3	5939.3	5497.0	5548.2	5627.3
50°	8873.1	8824.8	8660.7	8316.5	7600.3	6677.5	6592.6	6066.7	6258.6	6475.4
52.5°	9338.9	9365.2	9182.1	9010.8	8508.4	7385.0	7235.6	6739.0	7153.5	7512.4
55°	9817.8	9819.3	9768.0	9744.6	9460.4	8167.1	8003.1	7547.6	8206.7	8651.9
57.5°	10267.5	10270.4	10346.6	10553.1	10564.8	9069.4	8883.3	8540.6	9376.9	9831.0
60°	10668.8	10689.3	10897.3	11380.6	11535.9	10103.4	9927.7	9713.8	10586.8	11043.8
62.5°	10803.6	10878.3	11341.1	12028.0	12495.3	11371.9	11199.0	11071.6	11858.1	12282.9
65°	10575.1	10746.4	11641.4	12562.7	13482.5	12879.0	12707.7	12568.5	13179.3	13579.1
67.5°	10014.1	10235.3	11623.8	13123.6	14680.6	14692.3	14532.7	14206.0	14595.6	14749.4
70°	8536.2	8867.2	10600.0	13333.1	16055.9	17172.0	17018.2	16177.5	16009.1	15265.0
72.5°	5499.9	5945.2	7805.3	11609.1	16362.1	19505.3	19496.5	17957.1	16455.8	14263.2
75°	2006.6	2279.1	3626.6	7286.8	13734.4	19386.6	19443.8	17652.5	15021.9	11017.4
77.5°	730.9	799.7	1183.5	2800.5	8446.9	15555.0	15673.7	14112.3	10692.2	5529.2
80°	383.7	421.8	606.4	1086.8	3619.3	9237.8	9423.8	8386.8	5025.4	1665.4
82.5°	212.4	230.0	339.8	590.3	1630.2	3950.3	4061.6	3313.1	1767.9	706.0
85°	114.2	121.6	159.7	322.2	796.8	1369.5	1400.2	990.1	704.5	414.5
87.5°	33.7	41.0	52.7	102.5	312.0	307.6	314.9	196.3	278.3	209.5
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°
2804.9	0°	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9	2804.9
2826.9	2.5°	2818.1	2813.7	2797.6	2790.2	2781.4	2780.0	2787.3	2788.8	2790.2	2791.7
2859.1	5°	2844.4	2829.8	2815.1	2806.3	2809.3	2810.7	2825.4	2835.6	2843.0	2848.8
2919.1	7.5°	2895.7	2884.0	2859.1	2857.6	2862.0	2875.2	2894.2	2917.7	2930.8	2941.1
2996.8	10°	2971.9	2949.9	2920.6	2925.0	2933.8	2952.8	2992.4	3011.4	3033.4	3052.4
3092.0	12.5°	3049.5	3030.4	2996.8	2999.7	3014.3	3048.0	3086.1	3109.5	3124.2	3138.8
3194.5	15°	3150.5	3116.9	3080.2	3080.2	3106.6	3143.2	3160.8	3179.8	3188.6	3204.7
3304.3	17.5°	3254.5	3210.6	3162.3	3159.3	3191.6	3209.1	3219.4	3222.3	3225.2	3242.8
3411.3	20°	3358.5	3310.2	3241.4	3235.5	3242.8	3239.9	3238.4	3235.5	3239.9	3261.9
3521.1	22.5°	3461.1	3405.4	3310.2	3283.8	3263.3	3235.5	3234.0	3232.6	3235.5	3257.5
3639.8	25°	3581.2	3513.8	3386.4	3307.3	3238.4	3200.3	3204.7	3206.2	3209.1	3226.7
3762.8	27.5°	3711.5	3636.8	3456.7	3299.9	3175.4	3149.1	3141.8	3146.2	3156.4	3184.2
3885.8	30°	3841.9	3754.0	3521.1	3270.7	3096.4	3059.7	3036.3	3046.6	3078.8	3106.6
3992.7	32.5°	3960.5	3872.6	3572.4	3206.2	2995.3	2938.2	2907.4	2920.6	2952.8	2963.1
4111.4	35°	4099.7	4000.1	3594.4	3103.7	2885.4	2797.6	2756.5	2737.5	2753.6	2743.4
4250.5	37.5°	4254.9	4150.9	3591.4	2968.9	2756.5	2655.5	2598.4	2526.6	2492.9	2457.8
4455.6	40°	4484.9	4335.5	3556.3	2806.3	2596.9	2504.6	2402.1	2280.5	2204.4	2135.5
4786.6	42.5°	4798.3	4591.8	3491.8	2627.7	2416.7	2330.3	2191.2	2049.1	1929.0	1814.8
5289.0	45°	5265.6	4927.2	3411.3	2437.2	2221.9	2137.0	1986.1	1826.5	1690.3	1543.8
6002.3	47.5°	5939.3	5378.3	3335.1	2220.5	2016.9	1939.3	1803.0	1655.1	1494.0	1351.9
7033.4	50°	6865.0	6025.7	3264.8	2009.6	1814.8	1756.2	1647.8	1496.9	1334.3	1220.1
8241.8	52.5°	8042.6	6906.0	3235.5	1806.0	1625.8	1603.8	1517.4	1376.8	1223.0	1126.3
9650.8	55°	9394.5	7959.1	3235.5	1611.2	1460.3	1467.6	1407.6	1277.2	1143.9	1057.5
11103.8	57.5°	10774.3	9025.4	3176.9	1431.0	1319.7	1350.4	1312.4	1198.1	1078.0	988.7
12631.5	60°	12045.6	9918.9	2939.6	1267.0	1195.2	1243.5	1218.6	1120.5	974.0	899.3
13908.7	62.5°	13022.6	10422.7	2482.7	1136.6	1092.7	1148.3	1135.1	1018.0	955.0	924.2
14957.4	65°	13511.8	10340.7	1898.2	1020.9	1006.2	1092.7	1064.8	1060.4	1010.6	975.5
15298.7	67.5°	13211.5	9634.7	1376.8	935.9	956.4	1041.4	1148.3	1165.9	1073.6	1004.8
14337.9	70°	11894.8	8357.5	1025.3	855.4	893.5	1042.9	1309.4	1220.1	1053.1	972.6
11499.3	72.5°	9048.9	6232.3	795.3	770.4	811.4	1050.2	1381.2	1195.2	994.5	1075.1
7163.8	75°	5174.8	3421.5	638.6	666.4	708.9	981.3	1344.6	1130.7	949.1	987.2
2838.6	77.5°	1972.9	1315.3	527.3	563.9	569.8	856.8	1286.0	1126.3	903.7	881.7
851.0	80°	684.0	514.1	436.5	448.2	440.9	761.6	1233.3	979.9	739.7	662.0
351.5	82.5°	279.8	256.3	345.7	331.0	313.4	591.7	996.0	801.2	604.9	534.6
169.9	85°	121.6	162.6	228.5	200.7	181.6	410.1	798.3	678.2	511.2	440.9
55.7	87.5°	24.9	61.5	96.7	90.8	93.7	273.9	566.8	481.9	361.8	271.0
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

180°
2804.9
2797.6
2851.8
2944.0
3048.0
3144.7
3210.6
3248.7
3270.7
3272.1
3250.1
3212.1
3137.4
2999.7
2775.6
2479.7
2139.9
1804.5
1526.2
1335.8
1212.8
1119.0
1048.7
974.0
887.6
914.0
963.8
993.1
959.4
1066.3
987.2
804.1
640.1
528.8
439.4
212.4
0.0

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