

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: P940979

Luminaire Tested: **GALN-SB4B-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940979
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-SB4B-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23599 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

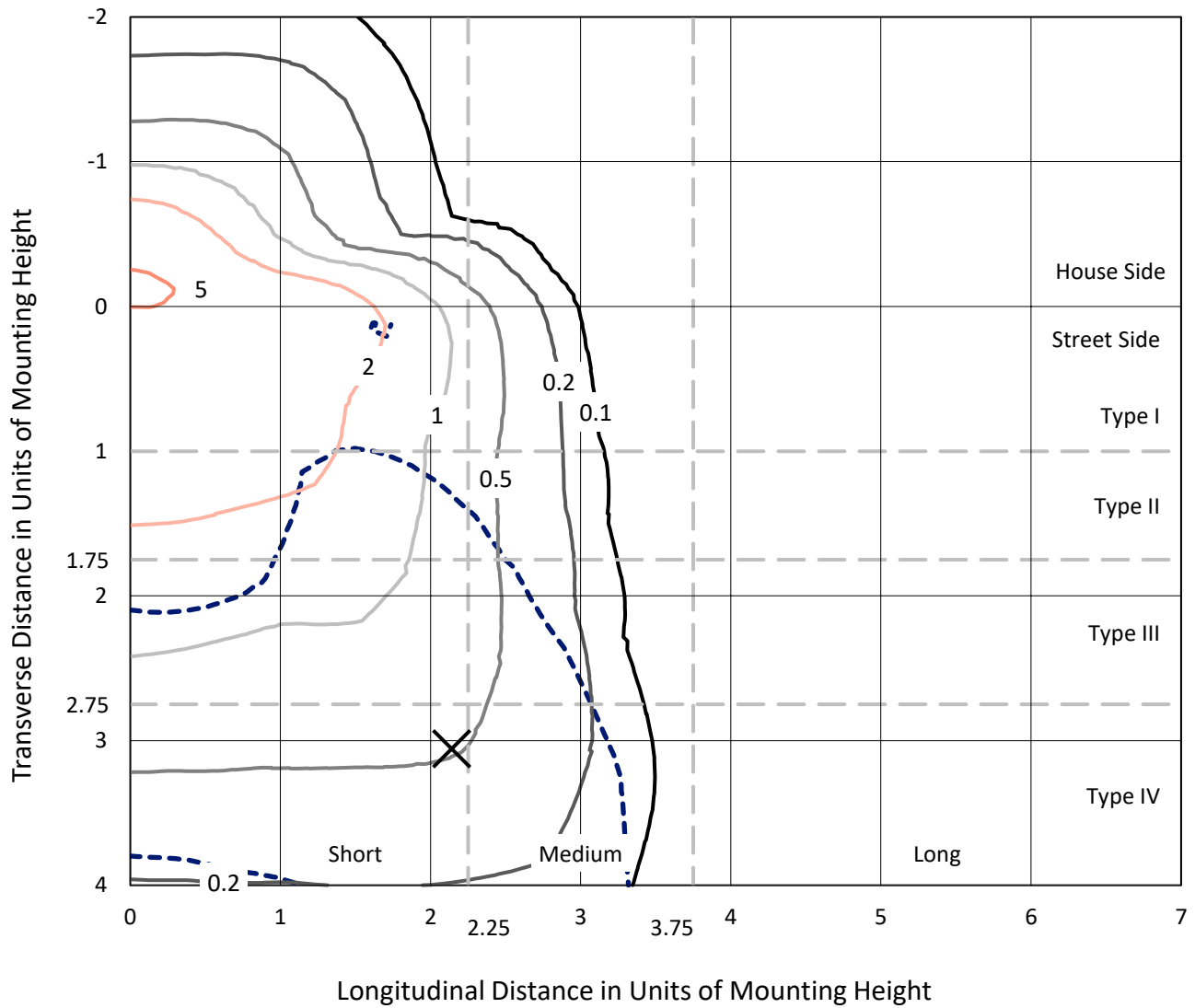
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

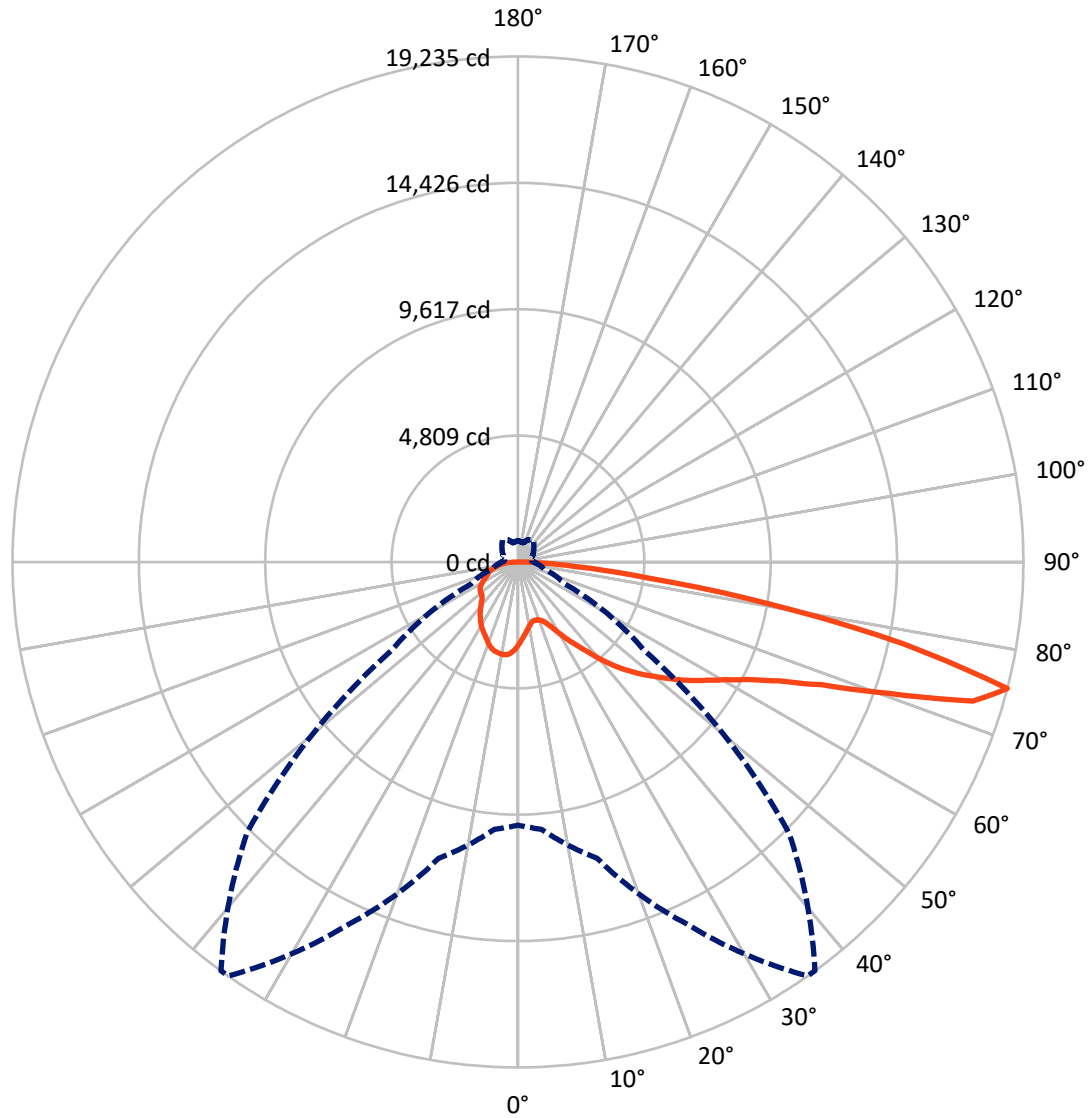
× Max cd
 - - - 1/2 Max cd



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



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

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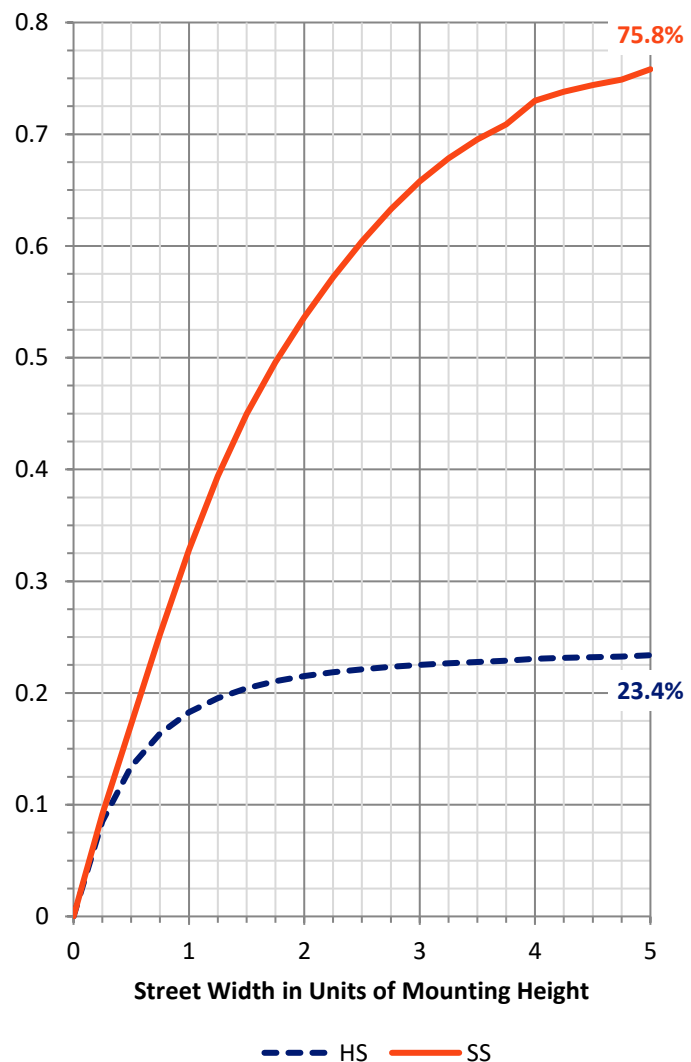
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5616.0	0.0	5616.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17983.0	0.0	17983.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	23599.0	0.0	23599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.3
10°-20°	858.8	3.6
20°-30°	1442.2	6.1
30°-40°	2241.4	9.5
40°-50°	3326.8	14.1
50°-60°	4592.8	19.5
60°-70°	5572.1	23.6
70°-80°	4604.9	19.5
80°-90°	662.3	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°	23599.0	100.0
0°-180°	23599.0	100.0

Coefficient of Utilization



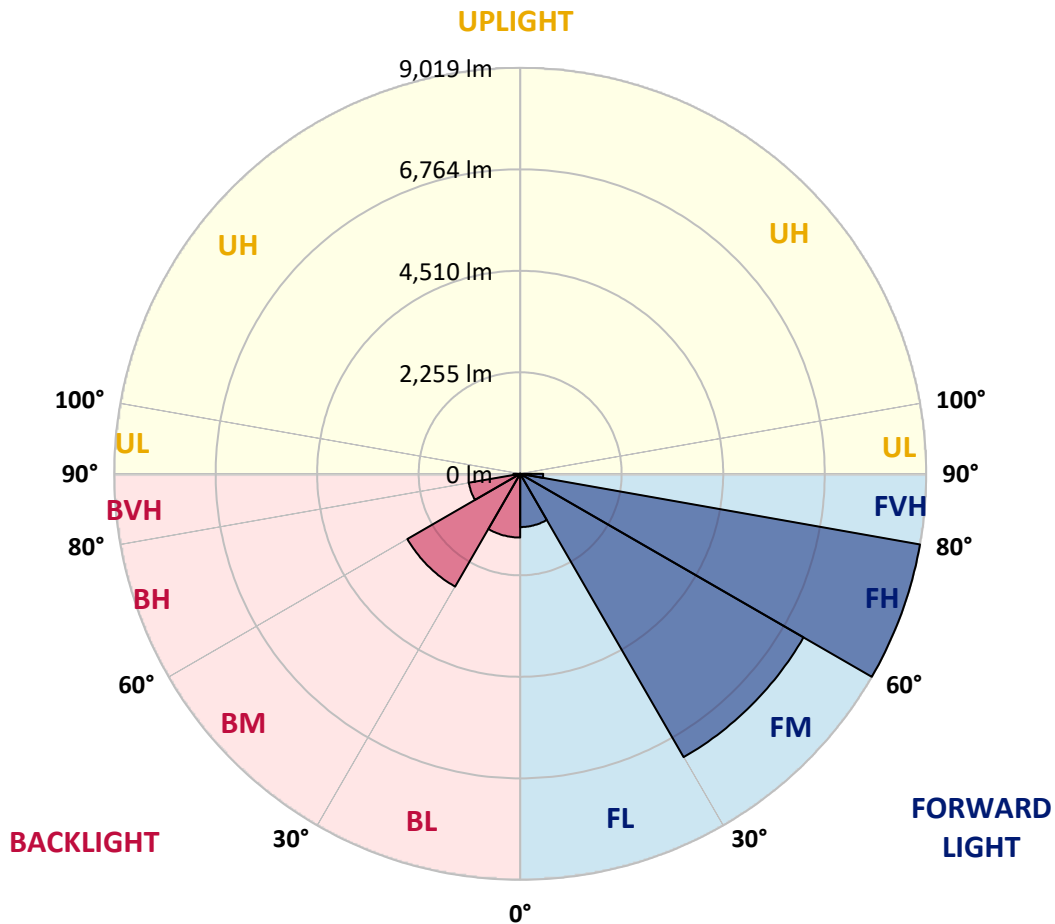
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.4	5.0			
FM (30°-60°)	7267.2	30.8			
FH (60°-80°)	9019.2	38.2			G4/12000
FVH (80°-90°)	513.2	2.2			G4/750
BL (0°-30°)	1415.3	6.0	B3/2500		
BM (30°-60°)	2893.7	12.3	B3/5000		
BH (60°-80°)	1157.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	149.1	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°	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7
2.5°	2899.8	2917.6	2925.3	2921.5	2940.6	2938.1	2964.8	2998.0	3043.9	3088.6
5°	2676.5	2695.7	2712.2	2727.6	2764.6	2776.0	2818.1	2881.9	2966.1	3051.6
7.5°	2468.6	2485.2	2510.7	2538.7	2601.3	2612.7	2682.9	2782.4	2899.8	3024.8
10°	2298.9	2315.5	2342.3	2374.2	2452.0	2466.0	2555.3	2688.0	2841.1	2999.3
12.5°	2226.2	2231.3	2246.6	2278.5	2346.1	2355.0	2453.3	2605.1	2783.7	2980.2
15°	2222.4	2232.6	2233.8	2250.4	2306.6	2310.4	2401.0	2551.5	2748.0	2976.3
17.5°	2260.6	2268.3	2256.8	2267.0	2314.2	2320.6	2392.0	2526.0	2736.5	2992.9
20°	2362.7	2369.1	2334.6	2320.6	2355.0	2360.1	2430.3	2542.6	2748.0	3027.4
22.5°	2579.6	2583.4	2499.2	2441.8	2444.3	2446.9	2508.1	2610.2	2792.6	3089.9
25°	2917.6	2915.1	2781.1	2670.1	2606.4	2592.3	2633.2	2719.9	2867.9	3172.8
27.5°	3313.1	3294.0	3160.0	2994.2	2855.1	2834.7	2825.8	2862.8	2975.1	3282.5
30°	3759.6	3741.8	3597.6	3380.7	3188.1	3154.9	3070.7	3051.6	3134.5	3431.8
32.5°	4249.5	4238.0	4065.8	3803.0	3545.3	3507.0	3365.4	3314.4	3379.5	3657.6
35°	4660.3	4650.1	4507.2	4236.8	3921.7	3874.5	3730.3	3672.9	3706.1	3947.2
37.5°	5031.6	5026.5	4904.0	4690.9	4365.6	4308.2	4146.2	4127.1	4120.7	4328.6
40°	5376.0	5363.3	5235.7	5123.4	4882.3	4830.0	4687.1	4670.5	4622.0	4798.1
42.5°	5757.5	5724.3	5539.3	5487.0	5421.9	5378.6	5293.1	5295.6	5188.5	5327.5
45°	6068.7	6049.6	5859.5	5828.9	5899.1	5881.2	5955.2	5974.3	5766.4	5882.5
47.5°	6403.0	6385.1	6224.4	6202.7	6392.8	6397.9	6659.4	6665.8	6330.3	6459.1
50°	6815.1	6789.5	6630.1	6656.9	6869.9	6889.1	7367.5	7324.1	6849.5	7044.7
52.5°	7086.8	7102.1	7067.7	7111.0	7401.9	7419.8	8064.0	7953.0	7363.6	7622.6
55°	7287.1	7317.7	7424.9	7524.4	7963.2	7981.1	8721.0	8551.4	7789.7	8158.4
57.5°	7544.8	7501.4	7701.7	7895.6	8496.5	8543.7	9360.2	9128.0	8167.4	8620.2
60°	7914.8	7884.1	8039.8	8326.8	9093.6	9168.8	10036.3	9647.2	8444.2	8986.4
62.5°	8664.9	8588.4	8612.6	8866.5	9846.2	9945.8	10799.2	10100.1	8582.0	9129.3
65°	9786.3	9654.9	9532.4	9708.5	10906.4	11004.6	11660.4	10456.1	8530.9	8852.4
67.5°	11198.5	11068.4	10917.9	11083.7	12467.9	12545.7	12723.1	10656.3	8129.1	7785.9
70°	12363.3	12314.8	12494.7	13177.2	14962.0	14964.6	14085.6	10490.5	7028.1	5520.2
72.5°	12208.9	12179.6	13127.5	15237.6	18105.5	18037.8	15375.4	9235.2	4734.3	2490.3
75°	10015.9	10206.0	11674.4	15200.6	19234.5	19225.6	14585.7	5871.0	1958.3	1032.1
77.5°	5370.9	5672.0	7579.2	11222.8	15015.6	15241.4	10254.5	2054.0	840.7	660.8
80°	1751.6	2014.4	3021.0	5714.1	9756.9	9714.8	4395.0	806.3	575.4	468.2
82.5°	743.8	774.4	1349.7	2698.2	5007.3	4929.5	1399.5	463.1	404.4	320.2
85°	290.9	325.3	595.8	1247.7	2168.8	2121.6	505.2	229.6	259.0	209.2
87.5°	95.7	116.1	213.1	427.4	674.9	650.6	123.7	79.1	112.3	95.7
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°
3144.7	0°	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7
3153.7	2.5°	3171.5	3191.9	3216.2	3251.9	3282.5	3308.0	3334.8	3351.4	3357.8	3376.9
3158.8	5°	3194.5	3239.1	3299.1	3357.8	3415.2	3449.6	3480.2	3495.6	3509.6	3519.8
3172.8	7.5°	3232.8	3290.2	3384.6	3461.1	3509.6	3537.7	3558.1	3553.0	3558.1	3560.6
3188.1	10°	3265.9	3346.3	3458.6	3531.3	3568.3	3569.6	3564.4	3546.6	3537.7	3538.9
3211.1	12.5°	3305.5	3394.8	3516.0	3577.2	3587.4	3559.3	3537.7	3507.0	3495.6	3490.5
3245.5	15°	3359.1	3461.1	3578.5	3601.4	3575.9	3540.2	3503.2	3453.5	3427.9	3407.5
3304.2	17.5°	3424.1	3536.4	3627.0	3610.4	3555.5	3496.8	3436.9	3361.6	3309.3	3287.6
3384.6	20°	3514.7	3615.5	3664.0	3591.2	3508.3	3419.0	3317.0	3225.1	3176.6	3154.9
3486.6	22.5°	3624.4	3721.4	3699.7	3558.1	3440.7	3297.8	3170.2	3102.6	3078.4	3063.1
3618.0	25°	3755.8	3838.7	3725.2	3509.6	3329.7	3137.1	3038.8	3017.2	3005.7	2994.2
3778.8	27.5°	3926.8	3971.4	3744.3	3438.1	3156.2	2966.1	2930.4	2934.2	2930.4	2911.3
4002.0	30°	4152.6	4143.6	3762.2	3322.1	2957.2	2811.8	2814.3	2830.9	2833.4	2820.7
4313.3	32.5°	4449.8	4359.2	3771.1	3171.5	2767.1	2676.5	2679.1	2696.9	2709.7	2688.0
4720.3	35°	4809.6	4610.6	3757.1	2982.7	2620.4	2547.7	2528.5	2533.6	2537.5	2517.1
5214.0	37.5°	5229.3	4892.5	3694.6	2773.5	2499.2	2421.4	2380.6	2346.1	2325.7	2306.6
5772.8	40°	5689.8	5200.0	3579.8	2569.4	2364.0	2287.4	2226.2	2161.1	2092.2	2066.7
6364.7	42.5°	6172.1	5516.3	3440.7	2374.2	2208.3	2145.8	2080.7	1986.3	1883.0	1830.7
6979.6	45°	6672.2	5840.4	3304.2	2181.5	2048.9	2022.1	1946.8	1833.3	1721.0	1654.6
7595.8	47.5°	7162.1	6146.6	3103.9	1987.6	1899.6	1928.9	1870.3	1765.6	1640.6	1536.0
8206.9	50°	7630.3	6433.6	2776.0	1791.2	1778.4	1900.9	1844.7	1694.2	1551.3	1417.4
8806.5	52.5°	8094.6	6665.8	2356.3	1612.5	1713.3	1893.2	1811.6	1645.7	1470.9	1330.6
9370.4	55°	8488.8	6785.7	1951.9	1459.5	1618.9	1828.2	1772.0	1588.3	1357.4	1208.1
9756.9	57.5°	8713.4	6688.8	1615.1	1308.9	1488.8	1721.0	1704.4	1465.8	1222.2	1107.4
9832.2	60°	8616.4	6295.8	1339.5	1177.5	1365.1	1604.9	1587.0	1344.6	1118.8	1010.4
9429.1	62.5°	8081.9	5547.0	1121.4	1062.7	1252.8	1486.2	1469.7	1251.5	1039.7	935.1
8358.7	65°	7005.1	4512.3	951.7	967.0	1139.2	1343.4	1367.6	1173.7	977.2	875.2
6466.8	67.5°	5342.8	3268.5	819.0	884.1	1028.3	1203.0	1273.2	1117.6	924.9	828.0
3741.8	70°	3045.2	1856.2	706.8	803.7	930.0	1072.9	1200.5	1072.9	868.8	788.4
1402.1	72.5°	1154.6	852.2	611.1	723.4	835.6	963.2	1120.1	1002.7	803.7	743.8
724.6	75°	616.2	519.2	514.1	628.9	727.2	856.0	1019.3	933.8	755.2	785.9
501.4	77.5°	419.7	367.4	429.9	538.4	608.5	737.4	912.2	829.2	654.5	651.9
347.0	80°	290.9	260.3	349.6	433.8	470.8	620.0	796.1	711.9	533.3	497.5
214.3	82.5°	174.8	169.7	261.5	324.0	333.0	478.4	659.6	597.1	436.3	380.2
127.6	85°	95.7	100.8	167.1	190.1	193.9	334.2	516.7	461.8	335.5	281.9
45.9	87.5°	26.8	34.4	61.2	75.3	93.1	173.5	307.5	274.3	168.4	117.4
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>
3144.7
3375.6
3522.3
3564.4
3541.5
3487.9
3413.9
3288.9
3152.4
3065.6
2994.2
2915.1
2827.1
2698.2
2531.1
2319.3
2078.2
1837.1
1649.5
1524.5
1405.9
1315.3
1195.4
1092.0
995.1
918.5
858.6
812.7
778.2
733.6
<i>811.4</i>
600.9
475.9
382.7
284.5
117.4
0.0

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