

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: P942159

Luminaire Tested: **GALN-SB6A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942159
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-SB6A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28444 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

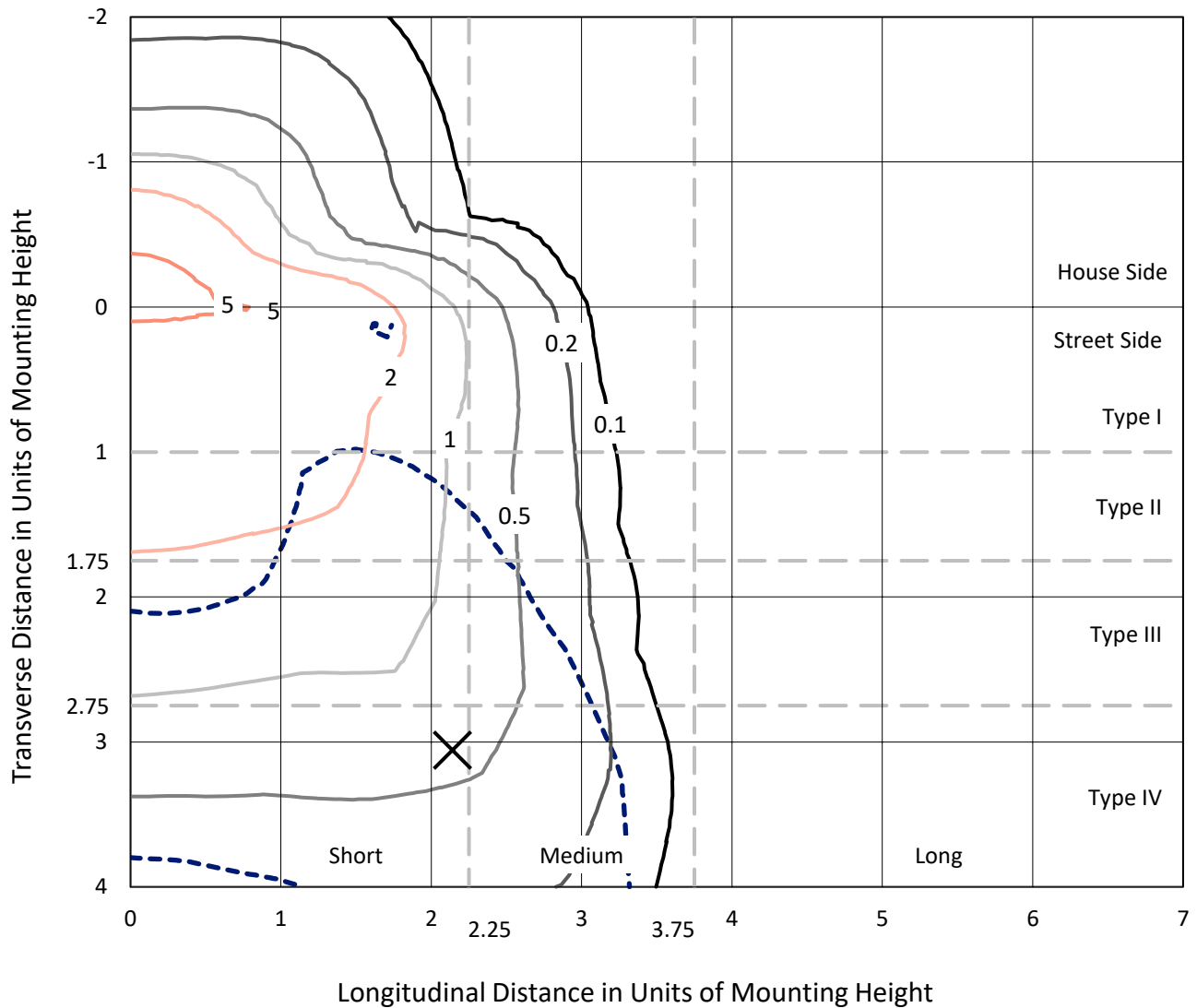
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

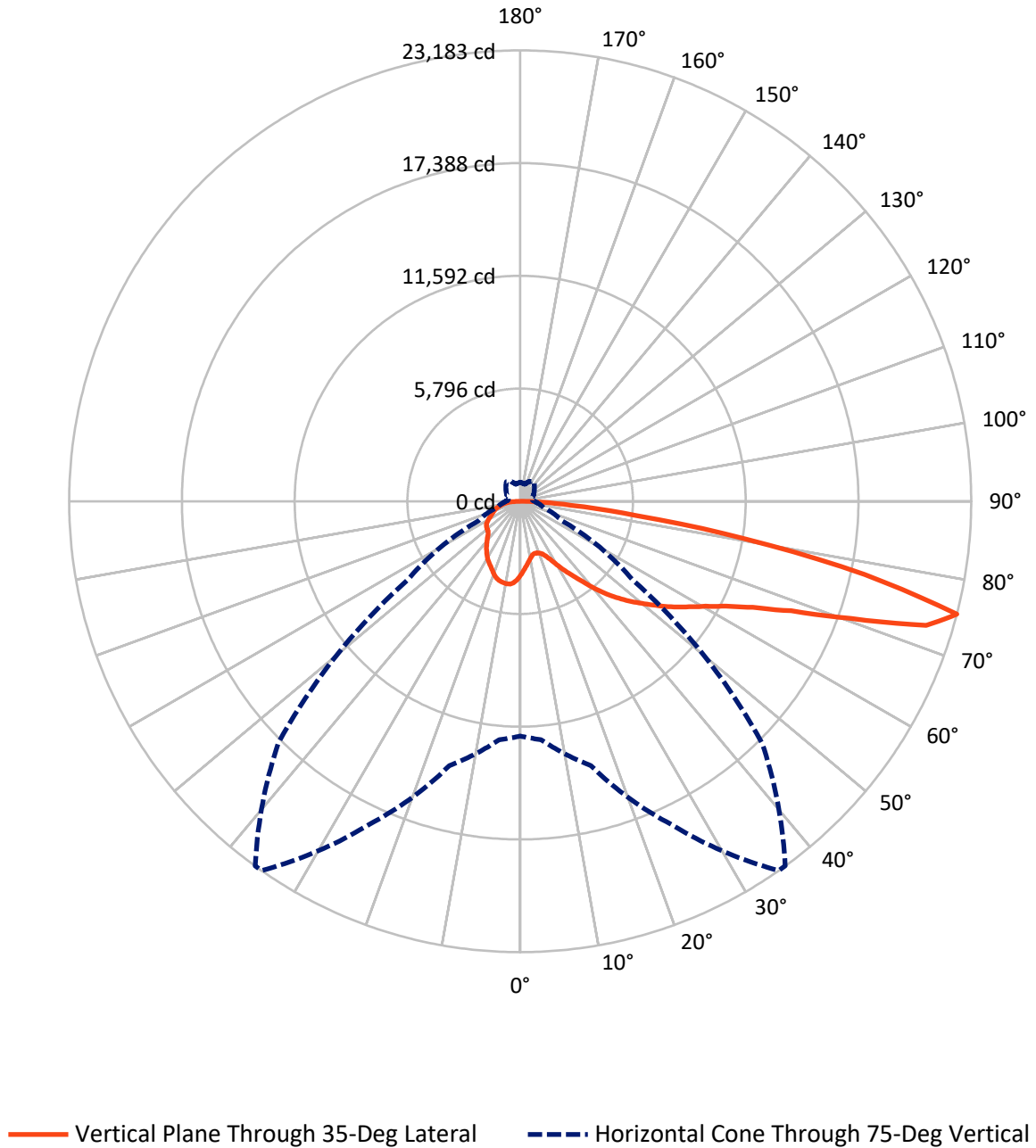
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6769.0	0.0	6769.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21675.0	0.0	21675.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	28444.0	0.0	28444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	1.3
10°-20°	1035.1	3.6
20°-30°	1738.3	6.1
30°-40°	2701.5	9.5
40°-50°	4009.8	14.1
50°-60°	5535.7	19.5
60°-70°	6716.1	23.6
70°-80°	5550.3	19.5
80°-90°	798.3	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°	28444.0	100.0
0°-180°	28444.0	100.0

Coefficient of Utilization



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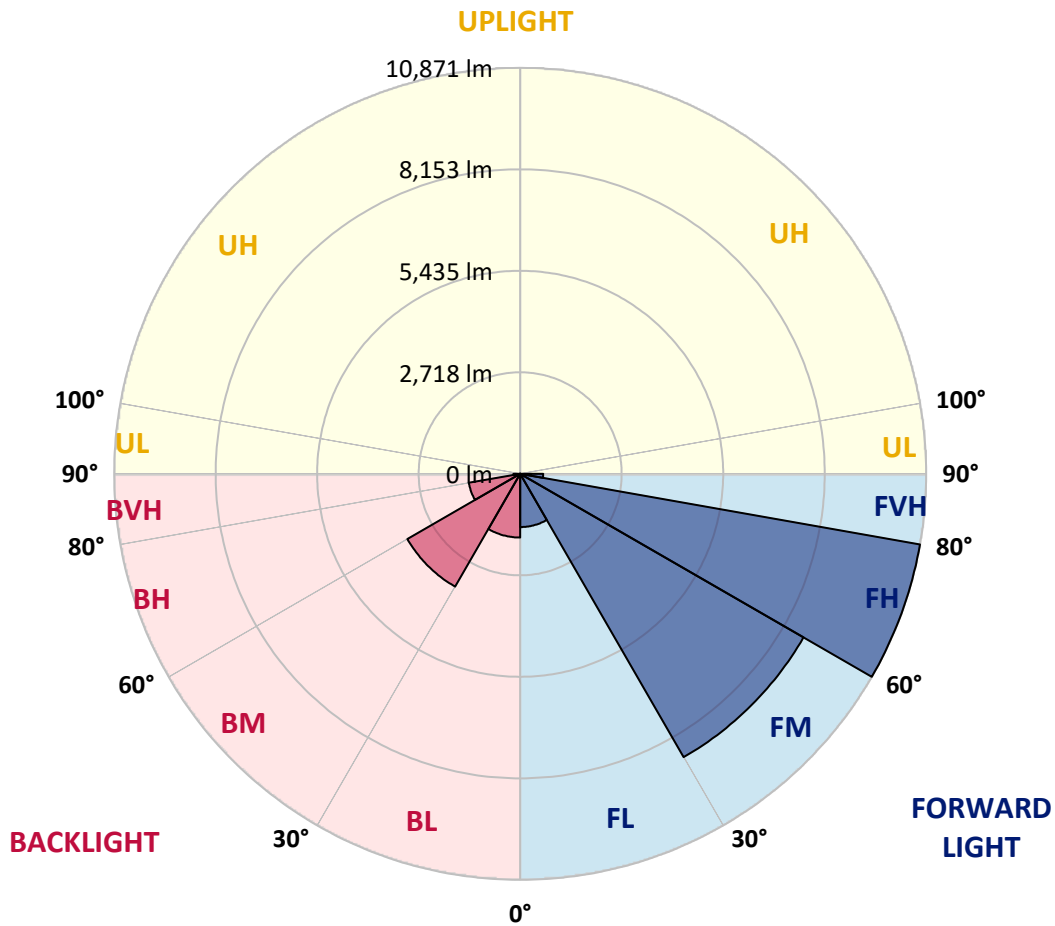
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.4	5.0			
FM (30°-60°)	8759.2	30.8			
FH (60°-80°)	10870.9	38.2			G4/12000
FVH (80°-90°)	618.5	2.2			G4/750
BL (0°-30°)	1705.9	6.0	B3/2500		
BM (30°-60°)	3487.8	12.3	B3/5000		
BH (60°-80°)	1395.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	179.8	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°	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4
2.5°	3495.1	3516.7	3525.9	3521.3	3544.3	3541.3	3573.5	3613.5	3668.9	3722.7
5°	3226.0	3249.1	3269.1	3287.5	3332.1	3346.0	3396.7	3473.6	3575.1	3678.1
7.5°	2975.4	2995.4	3026.1	3060.0	3135.3	3149.1	3233.7	3353.7	3495.1	3645.8
10°	2770.9	2790.9	2823.2	2861.6	2955.4	2972.3	3080.0	3239.9	3424.4	3615.1
12.5°	2683.2	2689.4	2707.8	2746.3	2827.8	2838.5	2956.9	3139.9	3355.2	3592.0
15°	2678.6	2690.9	2692.5	2712.4	2780.1	2784.7	2893.9	3075.3	3312.1	3587.4
17.5°	2724.8	2734.0	2720.1	2732.4	2789.3	2797.0	2883.1	3044.6	3298.3	3607.4
20°	2847.8	2855.5	2813.9	2797.0	2838.5	2844.7	2929.3	3064.6	3312.1	3648.9
22.5°	3109.2	3113.8	3012.3	2943.1	2946.2	2949.3	3023.1	3146.1	3366.0	3724.2
25°	3516.7	3513.6	3352.1	3218.3	3141.5	3124.5	3173.7	3278.3	3456.7	3824.2
27.5°	3993.3	3970.3	3808.8	3608.9	3441.3	3416.7	3405.9	3450.5	3585.8	3956.4
30°	4531.5	4510.0	4336.2	4074.8	3842.6	3802.7	3701.2	3678.1	3778.1	4136.3
32.5°	5122.0	5108.1	4900.6	4583.8	4273.2	4227.1	4056.4	3994.9	4073.3	4408.5
35°	5617.1	5604.8	5432.6	5106.6	4726.8	4669.9	4496.1	4427.0	4466.9	4757.5
37.5°	6064.6	6058.4	5910.8	5654.0	5261.9	5192.7	4997.4	4974.4	4966.7	5217.3
40°	6479.7	6464.4	6310.6	6175.3	5884.7	5821.6	5649.4	5629.4	5571.0	5783.2
42.5°	6939.5	6899.5	6676.6	6613.5	6535.1	6482.8	6379.8	6382.9	6253.7	6421.3
45°	7314.7	7291.6	7062.5	7025.6	7110.2	7088.7	7177.8	7200.9	6950.3	7090.2
47.5°	7717.6	7696.0	7502.3	7476.1	7705.3	7711.4	8026.6	8034.3	7629.9	7785.2
50°	8214.2	8183.5	7991.3	8023.6	8280.4	8303.4	8880.0	8827.8	8255.7	8491.0
52.5°	8541.8	8560.2	8518.7	8571.0	8921.6	8943.1	9719.6	9585.8	8875.4	9187.6
55°	8783.2	8820.1	8949.2	9069.2	9598.1	9619.7	10511.5	10307.0	9389.0	9833.4
57.5°	9093.8	9041.5	9282.9	9516.6	10240.9	10297.8	11281.9	11002.0	9844.2	10390.0
60°	9539.7	9502.8	9690.4	10036.4	10960.5	11051.2	12096.8	11627.9	10177.8	10831.3
62.5°	10443.9	10351.6	10380.8	10686.8	11867.7	11987.7	13016.4	12173.7	10343.9	11003.6
65°	11795.5	11637.1	11489.5	11701.7	13145.5	13263.9	14054.3	12602.7	10282.4	10669.9
67.5°	13497.7	13340.8	13159.4	13359.3	15027.6	15121.4	15335.2	12844.2	9798.0	9384.4
70°	14901.6	14843.1	15059.9	15882.6	18033.8	18036.9	16977.4	12644.3	8471.0	6653.5
72.5°	14715.5	14680.1	15822.6	18365.9	21822.6	21741.1	18532.0	11131.2	5706.3	3001.5
75°	12072.2	12301.4	14071.2	18321.3	23183.4	23172.7	17580.2	7076.4	2360.3	1244.0
77.5°	6473.6	6836.5	9135.3	13526.9	18098.4	18370.5	12359.8	2475.6	1013.3	796.5
80°	2111.2	2428.0	3641.2	6887.2	11760.1	11709.4	5297.3	971.8	693.5	564.3
82.5°	896.5	933.4	1626.9	3252.2	6035.4	5941.6	1686.8	558.2	487.4	386.0
85°	350.6	392.1	718.1	1503.8	2614.0	2557.1	608.9	276.8	312.1	252.2
87.5°	115.3	139.9	256.8	515.1	813.4	784.2	149.2	95.3	135.3	115.3
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°
3790.4	0°	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4
3801.1	2.5°	3822.6	3847.2	3876.5	3919.5	3956.4	3987.2	4019.5	4039.5	4047.1	4070.2
3807.3	5°	3850.3	3904.1	3976.4	4047.1	4116.3	4157.9	4194.8	4213.2	4230.1	4242.4
3824.2	7.5°	3896.5	3965.6	4079.4	4171.7	4230.1	4264.0	4288.6	4282.4	4288.6	4291.6
3842.6	10°	3936.4	4033.3	4168.6	4256.3	4300.9	4302.4	4296.2	4274.7	4264.0	4265.5
3870.3	12.5°	3984.1	4091.7	4237.8	4311.6	4323.9	4290.1	4264.0	4227.1	4213.2	4207.1
3911.8	15°	4048.7	4171.7	4313.2	4340.8	4310.1	4267.0	4222.4	4162.5	4131.7	4107.1
3982.6	17.5°	4127.1	4262.4	4371.6	4351.6	4285.5	4214.8	4142.5	4051.8	3988.7	3962.6
4079.4	20°	4236.3	4357.8	4416.2	4328.5	4228.6	4121.0	3997.9	3887.2	3828.8	3802.7
4202.5	22.5°	4368.5	4485.4	4459.2	4288.6	4147.1	3974.9	3821.1	3739.6	3710.4	3691.9
4360.8	25°	4526.9	4626.8	4490.0	4230.1	4013.3	3781.1	3662.7	3636.6	3622.7	3608.9
4554.6	27.5°	4732.9	4786.8	4513.1	4144.0	3804.2	3575.1	3532.0	3536.6	3532.0	3509.0
4823.7	30°	5005.1	4994.4	4534.6	4004.1	3564.3	3389.0	3392.1	3412.1	3415.2	3399.8
5198.9	32.5°	5363.4	5254.2	4545.4	3822.6	3335.2	3226.0	3229.1	3250.6	3266.0	3239.9
5689.4	35°	5797.0	5557.1	4528.4	3595.1	3158.4	3070.7	3047.7	3053.8	3058.4	3033.8
6284.5	37.5°	6302.9	5897.0	4453.1	3342.9	3012.3	2918.5	2869.3	2827.8	2803.2	2780.1
6958.0	40°	6858.0	6267.5	4314.7	3096.9	2849.3	2757.0	2683.2	2604.8	2521.8	2491.0
7671.4	42.5°	7439.2	6648.9	4147.1	2861.6	2661.7	2586.4	2507.9	2394.2	2269.6	2206.6
8412.6	45°	8042.0	7039.5	3982.6	2629.4	2469.5	2437.2	2346.5	2209.6	2074.3	1994.4
9155.3	47.5°	8632.5	7408.5	3741.1	2395.7	2289.6	2325.0	2254.2	2128.1	1977.4	1851.4
9891.8	50°	9196.8	7754.5	3346.0	2158.9	2143.5	2291.1	2223.5	2042.0	1869.8	1708.4
10614.5	52.5°	9756.5	8034.3	2840.1	1943.6	2065.1	2281.9	2183.5	1983.6	1772.9	1603.8
11294.2	55°	10231.7	8178.9	2352.6	1759.1	1951.3	2203.5	2135.8	1914.4	1636.1	1456.2
11760.1	57.5°	10502.3	8062.0	1946.7	1577.6	1794.5	2074.3	2054.3	1766.8	1473.1	1334.7
11850.8	60°	10385.4	7588.4	1614.6	1419.3	1645.3	1934.4	1912.9	1620.7	1348.5	1217.8
11364.9	62.5°	9741.1	6685.8	1351.6	1280.9	1510.0	1791.4	1771.4	1508.5	1253.2	1127.1
10074.8	65°	8443.3	5438.7	1147.1	1165.6	1373.1	1619.2	1648.4	1414.7	1177.9	1054.8
7794.4	67.5°	6439.8	3939.5	987.2	1065.6	1239.4	1450.0	1534.6	1347.0	1114.8	997.9
4510.0	70°	3670.4	2237.3	851.9	968.7	1121.0	1293.2	1446.9	1293.2	1047.2	950.3
1689.9	72.5°	1391.6	1027.2	736.5	871.9	1007.2	1160.9	1350.1	1208.6	968.7	896.5
873.4	75°	742.7	625.8	619.7	758.1	876.5	1031.8	1228.6	1125.6	910.3	947.2
604.3	77.5°	505.9	442.8	518.2	648.9	733.5	888.8	1099.4	999.5	788.8	785.7
418.2	80°	350.6	313.7	421.3	522.8	567.4	747.3	959.5	858.0	642.7	599.7
258.3	82.5°	210.7	204.5	315.2	390.6	401.3	576.6	795.0	719.6	525.9	458.2
153.8	85°	115.3	121.5	201.4	229.1	233.7	402.9	622.8	556.6	404.4	339.8
55.4	87.5°	32.3	41.5	73.8	90.7	112.2	209.1	370.6	330.6	203.0	141.5
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>
3790.4
4068.7
4245.5
4296.2
4268.6
4204.0
4114.8
3964.1
3799.6
3695.0
3608.9
3513.6
3407.5
3252.2
3050.7
2795.5
2504.9
2214.2
1988.2
1837.5
1694.5
1585.3
1440.8
1316.2
1199.4
1107.1
1034.9
979.5
938.0
884.2
978.0
724.2
573.6
461.3
342.9
141.5
0.0

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