

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: P941699

Luminaire Tested: **GALN-SB5B-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941699
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-SB5B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26077 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

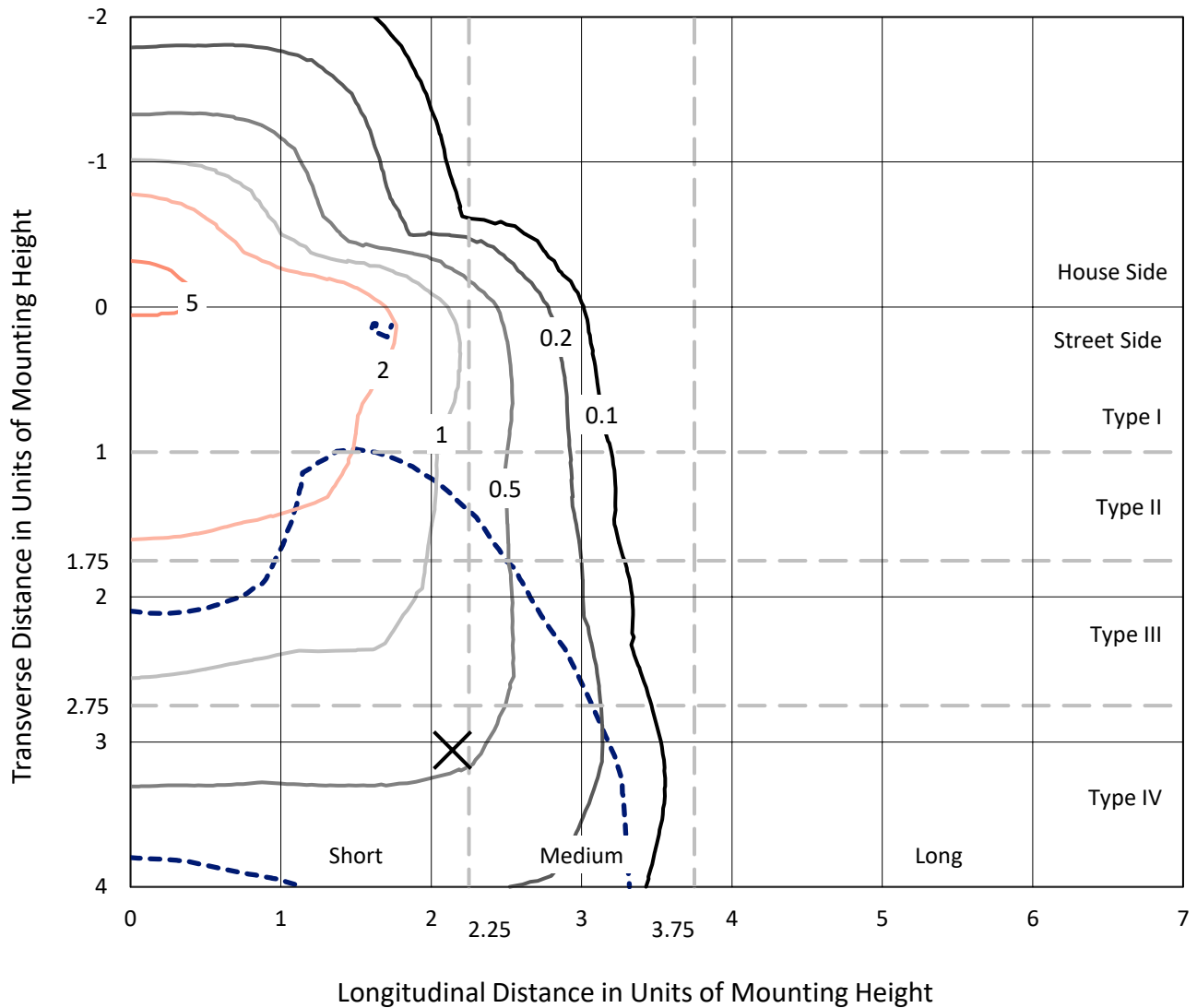
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

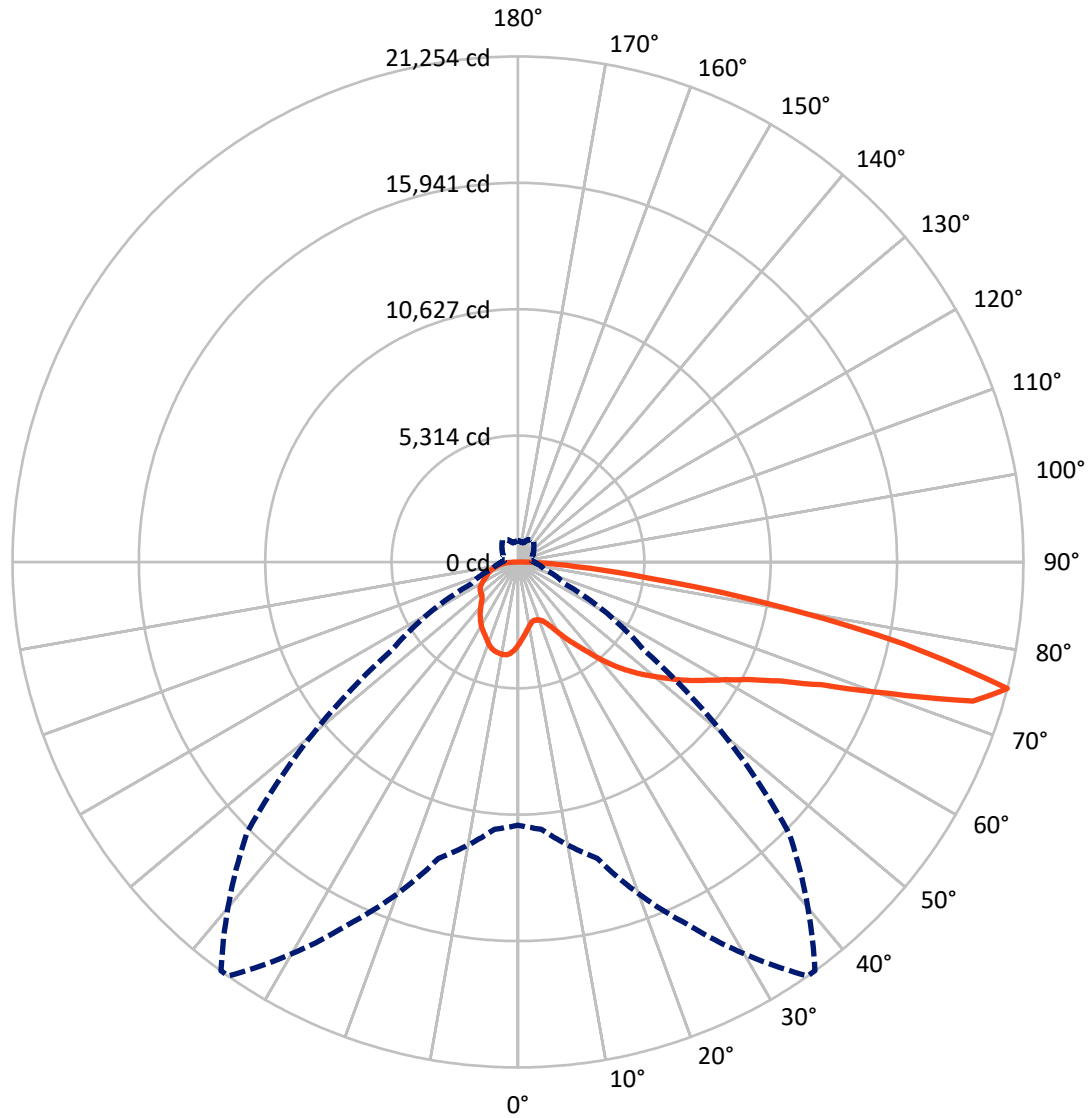
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6205.7	0.0	6205.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19871.3	0.0	19871.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	26077.0	0.0	26077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.3
10°-20°	949.0	3.6
20°-30°	1593.6	6.1
30°-40°	2476.7	9.5
40°-50°	3676.1	14.1
50°-60°	5075.1	19.5
60°-70°	6157.2	23.6
70°-80°	5088.5	19.5
80°-90°	731.9	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°	26077.0	100.0
0°-180°	26077.0	100.0

Coefficient of Utilization



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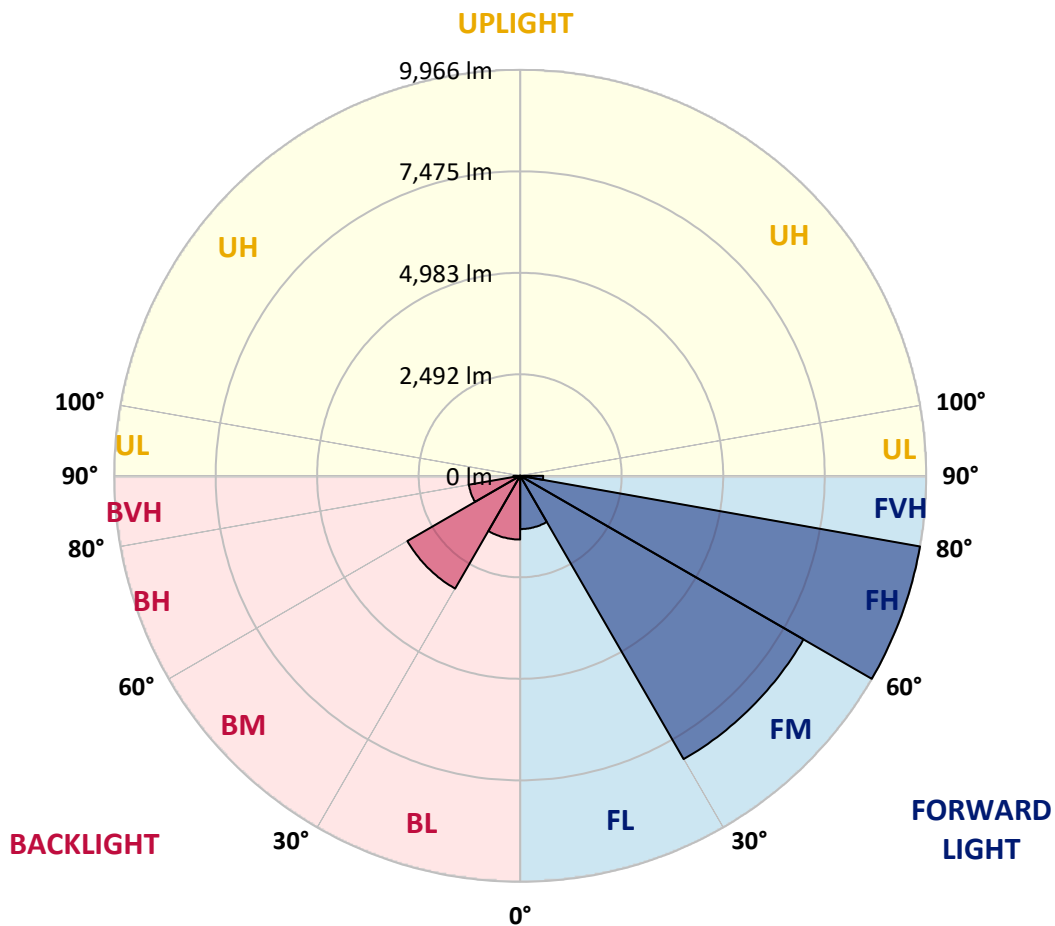
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.7	5.0			
FM (30°-60°)	8030.3	30.8			
FH (60°-80°)	9966.2	38.2			G4/12000
FVH (80°-90°)	567.1	2.2			G4/750
BL (0°-30°)	1563.9	6.0	B3/2500		
BM (30°-60°)	3197.5	12.3	B3/5000		
BH (60°-80°)	1279.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	164.8	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°	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9
2.5°	3204.3	3224.0	3232.5	3228.2	3249.4	3246.6	3276.2	3312.8	3363.6	3412.9
5°	2957.6	2978.7	2997.0	3014.0	3054.8	3067.5	3114.1	3184.5	3277.6	3372.0
7.5°	2727.8	2746.1	2774.3	2805.3	2874.4	2887.1	2964.6	3074.6	3204.3	3342.4
10°	2540.3	2558.6	2588.2	2623.5	2709.5	2725.0	2823.7	2970.3	3139.4	3314.2
12.5°	2459.9	2465.6	2482.5	2517.7	2592.5	2602.3	2710.9	2878.6	3076.0	3293.1
15°	2455.7	2467.0	2468.4	2486.7	2548.8	2553.0	2653.1	2819.4	3036.5	3288.9
17.5°	2498.0	2506.5	2493.8	2505.1	2557.2	2564.3	2643.2	2791.2	3023.8	3307.2
20°	2610.8	2617.8	2579.8	2564.3	2602.3	2608.0	2685.5	2809.6	3036.5	3345.2
22.5°	2850.4	2854.7	2761.6	2698.2	2701.0	2703.8	2771.5	2884.3	3085.9	3414.3
25°	3224.0	3221.2	3073.2	2950.5	2880.0	2864.5	2909.6	3005.5	3169.0	3506.0
27.5°	3661.0	3639.9	3491.9	3308.6	3154.9	3132.4	3122.5	3163.4	3287.4	3627.2
30°	4154.4	4134.7	3975.4	3735.7	3522.9	3486.2	3393.2	3372.0	3463.7	3792.1
32.5°	4695.7	4683.1	4492.7	4202.3	3917.6	3875.3	3718.8	3662.4	3734.3	4041.6
35°	5149.7	5138.4	4980.5	4681.6	4333.5	4281.3	4122.0	4058.6	4095.2	4361.6
37.5°	5559.9	5554.3	5418.9	5183.5	4824.0	4760.6	4581.6	4560.4	4553.4	4783.1
40°	5940.5	5926.4	5785.5	5661.4	5395.0	5337.2	5179.3	5161.0	5107.4	5301.9
42.5°	6362.0	6325.4	6121.0	6063.2	5991.3	5943.3	5848.9	5851.7	5733.3	5887.0
45°	6706.0	6684.8	6474.8	6441.0	6518.5	6498.8	6580.5	6601.7	6371.9	6500.2
47.5°	7075.3	7055.6	6878.0	6854.0	7064.1	7069.7	7358.7	7365.7	6995.0	7137.4
50°	7530.7	7502.5	7326.3	7355.9	7591.3	7612.4	8141.1	8093.1	7568.7	7784.4
52.5°	7830.9	7847.9	7809.8	7857.7	8179.1	8198.9	8910.8	8788.1	8136.8	8423.0
55°	8052.3	8086.1	8204.5	8314.5	8799.4	8819.1	9636.8	9449.3	8607.7	9015.1
57.5°	8337.0	8289.1	8510.4	8724.7	9388.7	9440.8	10343.0	10086.5	9025.0	9525.4
60°	8745.8	8712.0	8884.0	9201.2	10048.4	10131.6	11090.2	10660.2	9330.9	9930.0
62.5°	9574.8	9490.2	9517.0	9797.5	10880.1	10990.1	11933.2	11160.7	9483.1	10087.9
65°	10813.9	10668.7	10533.4	10727.9	12051.6	12160.2	12884.8	11554.0	9426.7	9782.0
67.5°	12374.4	12230.6	12064.3	12247.6	13777.1	13863.1	14059.0	11775.3	8982.7	8603.5
70°	13661.5	13607.9	13806.7	14560.9	16533.1	16535.9	15564.6	11592.1	7766.1	6099.8
72.5°	13490.9	13458.5	14505.9	16837.6	20006.6	19931.9	16989.8	10204.9	5231.4	2751.8
75°	11067.6	11277.7	12900.3	16796.7	21254.2	21244.3	16117.2	6487.5	2163.9	1140.5
77.5°	5934.9	6267.6	8375.1	12401.2	16592.3	16841.8	11331.3	2269.6	929.0	730.2
80°	1935.5	2225.9	3338.2	6314.1	10781.5	10734.9	4856.5	890.9	635.8	517.4
82.5°	821.9	855.7	1491.5	2981.5	5533.1	5447.1	1546.5	511.7	446.9	353.8
85°	321.4	359.5	658.3	1378.7	2396.5	2344.3	558.2	253.7	286.2	231.2
87.5°	105.7	128.3	235.4	472.3	745.7	719.0	136.7	87.4	124.1	105.7
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°
3474.9	0°	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9
3484.8	2.5°	3504.5	3527.1	3553.9	3593.4	3627.2	3655.4	3685.0	3703.3	3710.4	3731.5
3490.4	5°	3529.9	3579.3	3645.5	3710.4	3773.8	3811.9	3845.7	3862.6	3878.1	3889.4
3506.0	7.5°	3572.2	3635.6	3740.0	3824.5	3878.1	3909.1	3931.7	3926.0	3931.7	3934.5
3522.9	10°	3608.9	3697.7	3821.7	3902.1	3943.0	3944.4	3938.7	3919.0	3909.1	3910.5
3548.2	12.5°	3652.6	3751.2	3885.2	3952.8	3964.1	3933.1	3909.1	3875.3	3862.6	3857.0
3586.3	15°	3711.8	3824.5	3954.2	3979.6	3951.4	3911.9	3871.1	3816.1	3787.9	3765.3
3651.2	17.5°	3783.7	3907.7	4007.8	3989.5	3928.9	3864.0	3797.8	3714.6	3656.8	3632.8
3740.0	20°	3883.8	3995.1	4048.7	3968.3	3876.7	3778.0	3665.2	3563.7	3510.2	3486.2
3852.7	22.5°	4005.0	4112.1	4088.2	3931.7	3802.0	3644.1	3503.1	3428.4	3401.6	3384.7
3997.9	25°	4150.2	4241.8	4116.4	3878.1	3679.3	3466.5	3357.9	3334.0	3321.3	3308.6
4175.6	27.5°	4339.1	4388.4	4137.5	3799.2	3487.6	3277.6	3238.1	3242.3	3238.1	3217.0
4422.3	30°	4588.6	4578.7	4157.2	3670.9	3267.7	3107.0	3109.8	3128.1	3131.0	3116.9
4766.2	32.5°	4917.1	4817.0	4167.1	3504.5	3057.7	2957.6	2960.4	2980.1	2994.2	2970.3
5215.9	35°	5314.6	5094.7	4151.6	3295.9	2895.5	2815.2	2794.0	2799.7	2803.9	2781.4
5761.5	37.5°	5778.4	5406.2	4082.5	3064.7	2761.6	2675.6	2630.5	2592.5	2569.9	2548.8
6378.9	40°	6287.3	5746.0	3955.6	2839.2	2612.2	2527.6	2459.9	2388.0	2311.9	2283.7
7033.0	42.5°	6820.2	6095.6	3802.0	2623.5	2440.2	2371.1	2299.2	2194.9	2080.7	2022.9
7712.5	45°	7372.8	6453.7	3651.2	2410.6	2264.0	2234.4	2151.2	2025.8	1901.7	1828.4
8393.4	47.5°	7914.1	6792.0	3429.8	2196.3	2099.1	2131.5	2066.6	1951.0	1812.9	1697.3
9068.7	50°	8431.5	7109.2	3067.5	1979.2	1965.1	2100.5	2038.4	1872.1	1714.2	1566.2
9731.2	52.5°	8944.6	7365.7	2603.7	1781.9	1893.2	2092.0	2001.8	1818.5	1625.4	1470.3
10354.3	55°	9380.2	7498.3	2156.9	1612.7	1788.9	2020.1	1958.1	1755.1	1499.9	1335.0
10781.5	57.5°	9628.3	7391.1	1784.7	1446.4	1645.1	1901.7	1883.4	1619.8	1350.5	1223.6
10864.6	60°	9521.2	6956.9	1480.2	1301.2	1508.4	1773.4	1753.7	1485.8	1236.3	1116.5
10419.2	62.5°	8930.5	6129.4	1239.1	1174.3	1384.3	1642.3	1624.0	1382.9	1148.9	1033.3
9236.4	65°	7740.7	4986.1	1051.6	1068.6	1258.9	1484.4	1511.2	1296.9	1079.8	967.1
7145.8	67.5°	5903.9	3611.7	905.0	976.9	1136.2	1329.4	1406.9	1234.9	1022.0	914.9
4134.7	70°	3365.0	2051.1	781.0	888.1	1027.7	1185.6	1326.5	1185.6	960.0	871.2
1549.3	72.5°	1275.8	941.7	675.3	799.3	923.4	1064.3	1237.7	1108.0	888.1	821.9
800.7	75°	680.9	573.8	568.1	695.0	803.5	945.9	1126.4	1031.9	834.5	868.4
554.0	77.5°	463.8	406.0	475.1	594.9	672.4	814.8	1007.9	916.3	723.2	720.4
383.4	80°	321.4	287.6	386.3	479.3	520.2	685.1	879.7	786.6	589.3	549.8
236.8	82.5°	193.1	187.5	289.0	358.1	367.9	528.6	728.8	659.7	482.1	420.1
141.0	85°	105.7	111.4	184.7	210.0	214.3	369.3	570.9	510.3	370.8	311.5
50.7	87.5°	29.6	38.1	67.7	83.2	102.9	191.7	339.7	303.1	186.1	129.7
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>
3474.9
3730.1
3892.2
3938.7
3913.4
3854.1
3772.4
3634.2
3483.4
3387.5
3308.6
3221.2
3123.9
2981.5
2796.9
2562.9
2296.4
2030.0
1822.8
1684.6
1553.5
1453.4
1320.9
1206.7
1099.6
1015.0
948.7
898.0
859.9
810.6
<i>896.6</i>
664.0
525.8
422.9
314.4
129.7
0.0

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