

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: P943769

Luminaire Tested: **GALN-SB8B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943769
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-SB8B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27394 lumens
Efficiency: N/A
Efficacy: 93.6 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

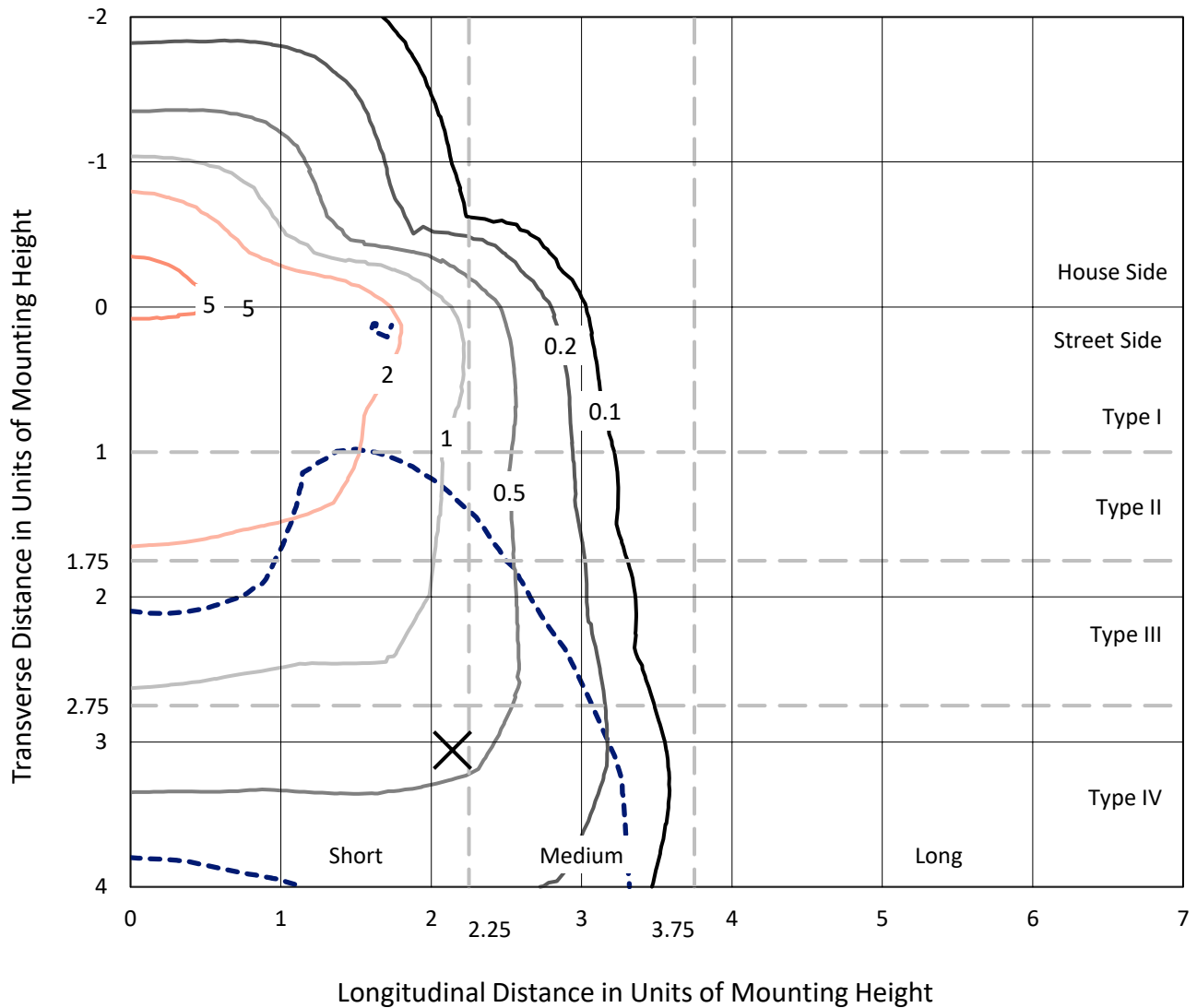
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

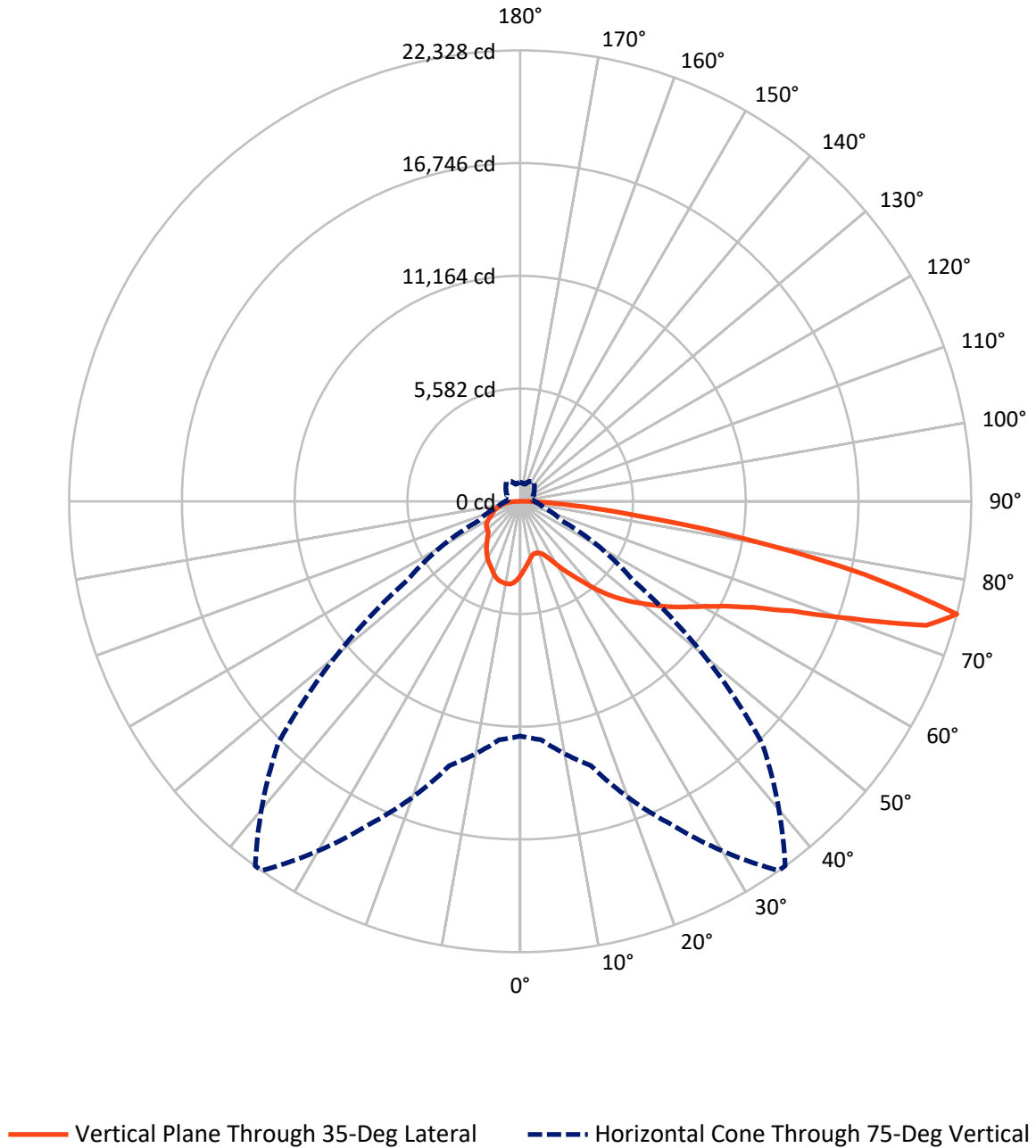
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	6519.1	0.0	6519.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20874.9	0.0	20874.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	27394.0	0.0	27394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.3
10°-20°	996.9	3.6
20°-30°	1674.1	6.1
30°-40°	2601.8	9.5
40°-50°	3861.7	14.1
50°-60°	5331.4	19.5
60°-70°	6468.2	23.6
70°-80°	5345.4	19.5
80°-90°	768.8	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°	27394.0	100.0
0°-180°	27394.0	100.0

Coefficient of Utilization



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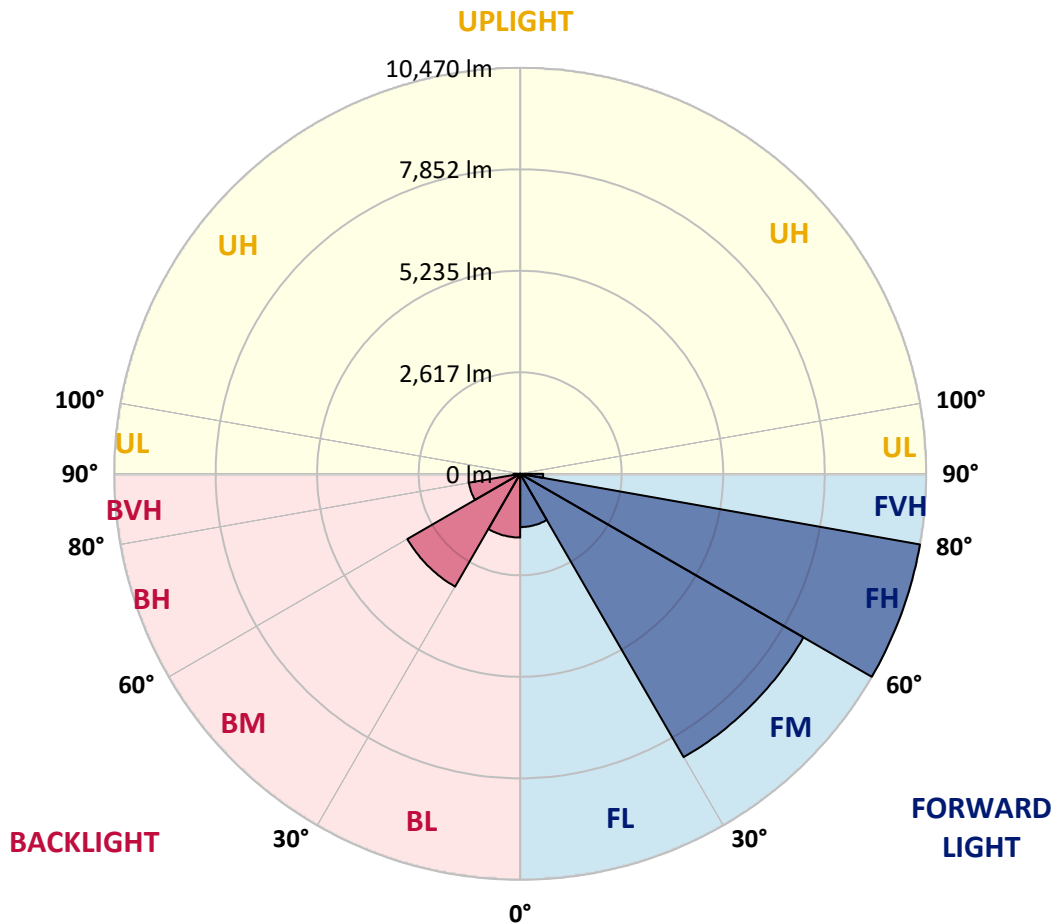
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.8	5.0			
FM (30°-60°)	8435.9	30.8			
FH (60°-80°)	10469.6	38.2			G4/12000
FVH (80°-90°)	595.7	2.2			G4/750
BL (0°-30°)	1642.9	6.0	B3/2500		
BM (30°-60°)	3359.0	12.3	B3/5000		
BH (60°-80°)	1344.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	173.1	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°	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4
2.5°	3366.1	3386.8	3395.7	3391.3	3413.5	3410.5	3441.6	3480.1	3533.4	3585.3
5°	3106.9	3129.2	3148.4	3166.2	3209.1	3222.5	3271.3	3345.4	3443.1	3542.3
7.5°	2865.6	2884.8	2914.4	2947.0	3019.6	3032.9	3114.3	3229.9	3366.1	3511.2
10°	2668.6	2687.8	2718.9	2756.0	2846.3	2862.6	2966.3	3120.3	3298.0	3481.6
12.5°	2584.2	2590.1	2607.9	2644.9	2723.4	2733.8	2847.8	3024.0	3231.3	3459.4
15°	2579.7	2591.6	2593.1	2612.3	2677.5	2681.9	2787.1	2961.8	3189.9	3455.0
17.5°	2624.2	2633.1	2619.7	2631.6	2686.4	2693.8	2776.7	2932.2	3176.5	3474.2
20°	2742.6	2750.0	2710.1	2693.8	2733.8	2739.7	2821.1	2951.4	3189.9	3514.2
22.5°	2994.4	2998.8	2901.1	2834.5	2837.4	2840.4	2911.5	3029.9	3241.7	3586.8
25°	3386.8	3383.9	3228.4	3099.5	3025.5	3009.2	3056.6	3157.3	3329.1	3683.0
27.5°	3845.9	3823.7	3668.2	3475.7	3314.3	3290.6	3280.2	3323.2	3453.5	3810.4
30°	4364.2	4343.5	4176.2	3924.4	3700.8	3662.3	3564.5	3542.3	3638.6	3983.6
32.5°	4932.9	4919.6	4719.7	4414.6	4115.4	4071.0	3906.6	3847.4	3922.9	4245.8
35°	5409.8	5397.9	5232.0	4918.1	4552.3	4497.5	4330.2	4263.5	4302.0	4581.9
37.5°	5840.7	5834.8	5692.6	5445.3	5067.7	5001.0	4812.9	4790.7	4783.3	5024.7
40°	6240.5	6225.7	6077.6	5947.3	5667.4	5606.7	5440.9	5421.6	5365.3	5569.7
42.5°	6683.3	6644.8	6430.1	6369.4	6293.9	6243.5	6144.3	6147.2	6022.8	6184.3
45°	7044.7	7022.5	6801.8	6766.3	6847.7	6827.0	6912.9	6935.1	6693.7	6828.5
47.5°	7432.7	7411.9	7225.3	7200.2	7420.8	7426.7	7730.3	7737.7	7348.3	7497.8
50°	7911.0	7881.4	7696.3	7727.4	7974.7	7996.9	8552.2	8501.9	7951.0	8177.6
52.5°	8226.4	8244.2	8204.2	8254.6	8592.2	8613.0	9360.8	9232.0	8547.8	8848.4
55°	8458.9	8494.5	8618.9	8734.4	9243.8	9264.6	10123.5	9926.5	9042.4	9470.4
57.5°	8758.1	8707.7	8940.2	9165.3	9862.8	9917.6	10865.4	10595.9	9480.8	10006.5
60°	9187.5	9152.0	9332.7	9665.9	10555.9	10643.3	11650.3	11198.6	9802.1	10431.5
62.5°	10058.3	9969.5	9997.6	10292.3	11429.6	11545.2	12535.9	11724.3	9962.1	10597.4
65°	11360.0	11207.5	11065.3	11269.7	12660.3	12774.3	13535.5	12137.5	9902.8	10276.0
67.5°	12999.4	12848.3	12673.6	12866.1	14472.9	14563.2	14769.1	12370.0	9436.3	9038.0
70°	14351.5	14295.2	14504.0	15296.3	17368.1	17371.0	16350.7	12177.5	8158.3	6407.9
72.5°	14172.3	14138.2	15238.5	17688.0	21017.0	20938.5	17847.9	10720.3	5495.6	2890.7
75°	11626.6	11847.3	13551.8	17645.0	22327.6	22317.3	16931.2	6815.1	2273.2	1198.1
77.5°	6234.6	6584.1	8798.1	13027.5	17430.3	17692.4	11903.5	2384.3	975.9	767.1
80°	2033.3	2338.4	3506.8	6633.0	11326.0	11277.1	5101.7	935.9	667.9	543.5
82.5°	863.4	898.9	1566.8	3132.1	5812.6	5722.2	1624.6	537.6	469.4	371.7
85°	337.6	377.6	691.6	1448.3	2517.5	2462.7	586.4	266.6	300.6	242.9
87.5°	111.1	134.8	247.3	496.1	783.4	755.3	143.6	91.8	130.3	111.1
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°
3650.4	0°	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4	3650.4
3660.8	2.5°	3681.5	3705.2	3733.4	3774.8	3810.4	3840.0	3871.1	3890.3	3897.7	3920.0
3666.7	5°	3708.2	3760.0	3829.6	3897.7	3964.4	4004.4	4039.9	4057.7	4074.0	4085.8
3683.0	7.5°	3752.6	3819.3	3928.8	4017.7	4074.0	4106.6	4130.2	4124.3	4130.2	4133.2
3700.8	10°	3791.1	3884.4	4014.7	4099.2	4142.1	4143.6	4137.7	4116.9	4106.6	4108.0
3727.4	12.5°	3837.0	3940.7	4081.4	4152.5	4164.3	4131.7	4106.6	4071.0	4057.7	4051.8
3767.4	15°	3899.2	4017.7	4153.9	4180.6	4151.0	4109.5	4066.6	4008.8	3979.2	3955.5
3835.5	17.5°	3974.8	4105.1	4210.2	4191.0	4127.3	4059.2	3989.6	3902.2	3841.5	3816.3
3928.8	20°	4079.9	4196.9	4253.2	4168.8	4072.5	3968.8	3850.4	3743.7	3687.5	3662.3
4047.3	22.5°	4207.3	4319.8	4294.6	4130.2	3994.0	3828.1	3680.1	3601.6	3573.4	3555.7
4199.9	25°	4359.8	4456.0	4324.2	4074.0	3865.2	3641.6	3527.5	3502.3	3489.0	3475.7
4386.4	27.5°	4558.2	4610.1	4346.5	3991.0	3663.8	3443.1	3401.6	3406.1	3401.6	3379.4
4645.6	30°	4820.4	4810.0	4367.2	3856.3	3432.7	3263.9	3266.9	3286.1	3289.1	3274.3
5006.9	32.5°	5165.4	5060.3	4377.6	3681.5	3212.1	3106.9	3109.9	3130.6	3145.4	3120.3
5479.4	35°	5583.0	5352.0	4361.3	3462.4	3041.8	2957.4	2935.2	2941.1	2945.5	2921.8
6052.5	37.5°	6070.2	5679.3	4288.7	3219.5	2901.1	2810.8	2763.4	2723.4	2699.7	2677.5
6701.1	40°	6604.8	6036.2	4155.4	2982.5	2744.1	2655.3	2584.2	2508.7	2428.7	2399.1
7388.2	42.5°	7164.6	6403.4	3994.0	2756.0	2563.5	2490.9	2415.4	2305.8	2185.8	2125.1
8102.0	45°	7745.1	6779.6	3835.5	2532.4	2378.3	2347.2	2259.9	2128.1	1997.7	1920.7
8817.3	47.5°	8313.8	7135.0	3603.0	2307.3	2205.1	2239.1	2171.0	2049.6	1904.4	1783.0
9526.7	50°	8857.3	7468.2	3222.5	2079.2	2064.4	2206.6	2141.4	1966.6	1800.8	1645.3
10222.7	52.5°	9396.4	7737.7	2735.2	1871.9	1988.9	2197.7	2102.9	1910.4	1707.5	1544.6
10877.3	55°	9854.0	7876.9	2265.8	1694.2	1879.3	2122.1	2057.0	1843.7	1575.7	1402.4
11326.0	57.5°	10114.6	7764.4	1874.8	1519.4	1728.2	1997.7	1978.5	1701.6	1418.7	1285.4
11413.4	60°	10002.0	7308.3	1555.0	1366.9	1584.6	1863.0	1842.2	1560.9	1298.8	1172.9
10945.4	62.5°	9381.5	6439.0	1301.7	1233.6	1454.3	1725.3	1706.0	1452.8	1206.9	1085.5
9702.9	65°	8131.7	5238.0	1104.8	1122.5	1322.4	1559.4	1587.5	1362.4	1134.4	1015.9
7506.7	67.5°	6202.0	3794.1	950.7	1026.3	1193.6	1396.5	1477.9	1297.3	1073.7	961.1
4343.5	70°	3534.9	2154.7	820.4	933.0	1079.6	1245.4	1393.5	1245.4	1008.5	915.2
1627.5	72.5°	1340.2	989.2	709.4	839.7	970.0	1118.1	1300.2	1164.0	933.0	863.4
841.2	75°	715.3	602.7	596.8	730.1	844.1	993.7	1183.2	1084.0	876.7	912.2
582.0	77.5°	487.2	426.5	499.1	624.9	706.4	856.0	1058.8	962.6	759.7	756.7
402.8	80°	337.6	302.1	405.8	503.5	546.5	719.7	924.1	826.3	619.0	577.6
248.8	82.5°	202.9	197.0	303.6	376.2	386.5	555.3	765.6	693.1	506.5	441.3
148.1	85°	111.1	117.0	194.0	220.7	225.1	388.0	599.8	536.1	389.5	327.3
53.3	87.5°	31.1	40.0	71.1	87.4	108.1	201.4	356.9	318.4	195.5	136.2
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>
3650.4
3918.5
4088.8
4137.7
4111.0
4048.8
3962.9
3817.8
3659.3
3558.6
3475.7
3383.9
3281.7
3132.1
2938.1
2692.3
2412.4
2132.5
1914.8
1769.7
1632.0
1526.8
1387.6
1267.7
1155.1
1066.3
996.7
943.3
903.4
851.5
941.9
697.5
552.4
444.3
330.2
136.2
0.0

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