

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: P943259

Luminaire Tested: **GALN-SB7C-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943259
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-SB7C-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32042 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

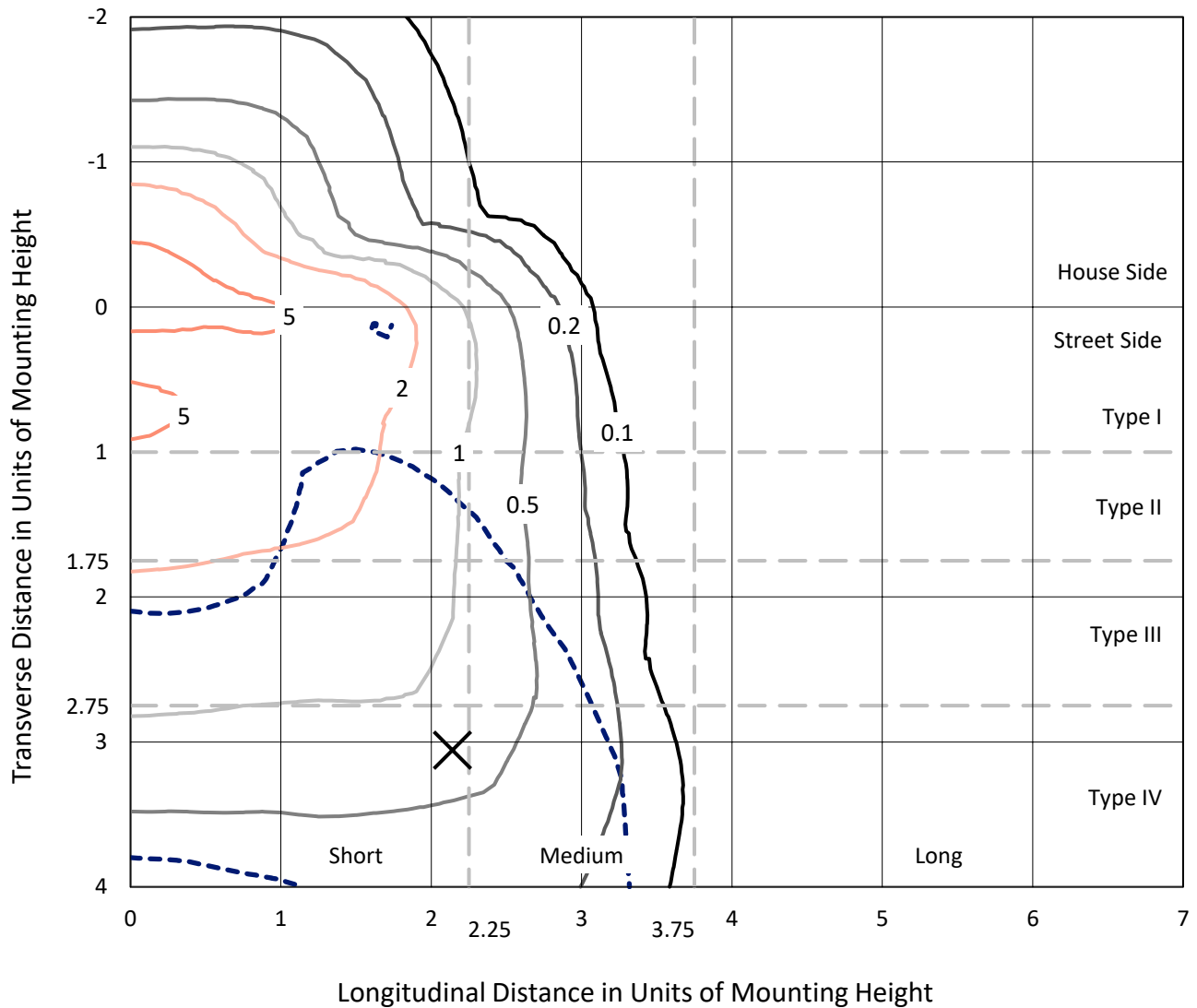
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

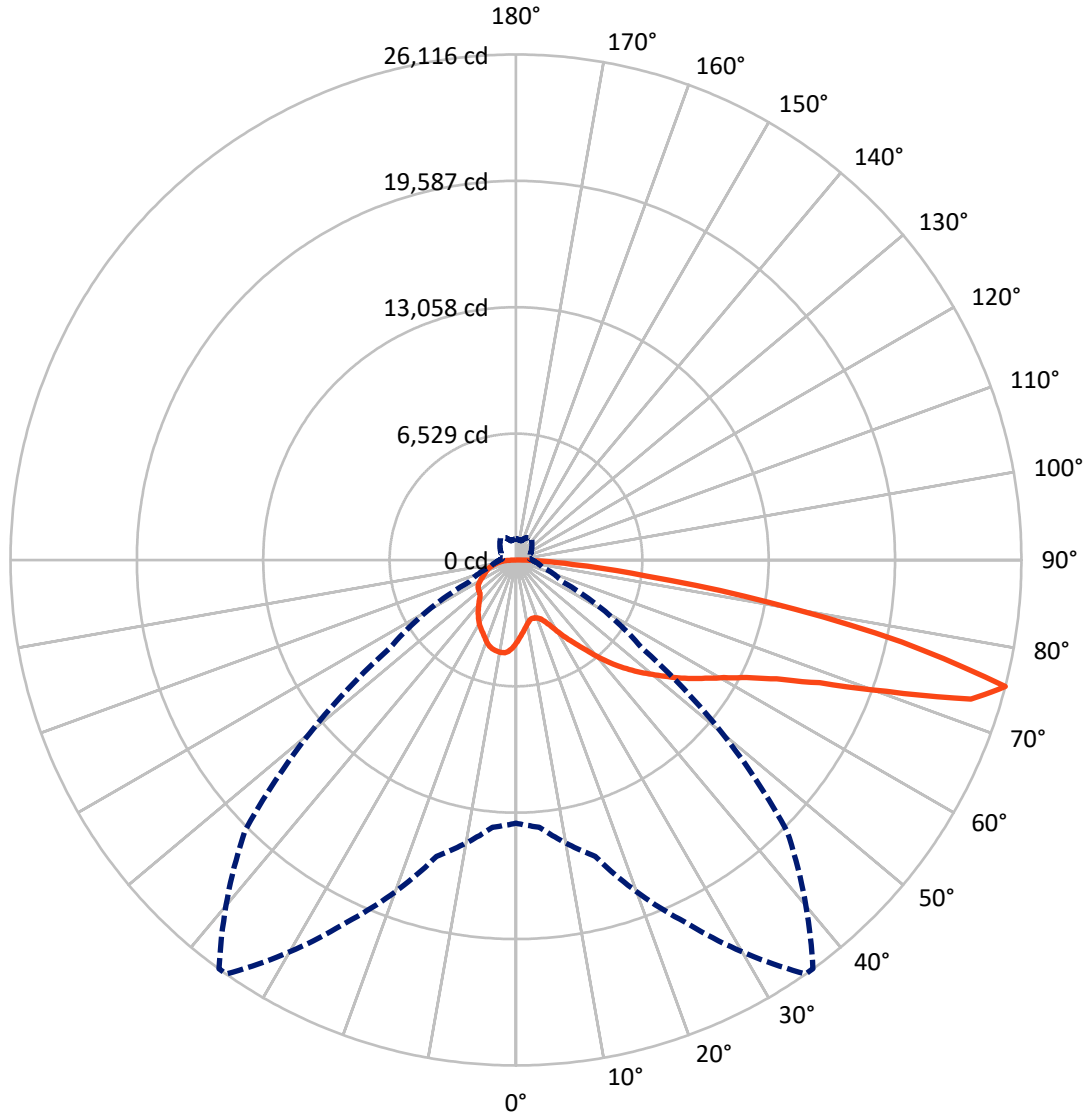
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7625.2	0.0	7625.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24416.8	0.0	24416.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	32042.0	0.0	32042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	1.3
10°-20°	1166.1	3.6
20°-30°	1958.1	6.1
30°-40°	3043.2	9.5
40°-50°	4517.0	14.1
50°-60°	6236.0	19.5
60°-70°	7565.6	23.6
70°-80°	6252.4	19.5
80°-90°	899.3	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°	32042.0	100.0
0°-180°	32042.0	100.0

Coefficient of Utilization



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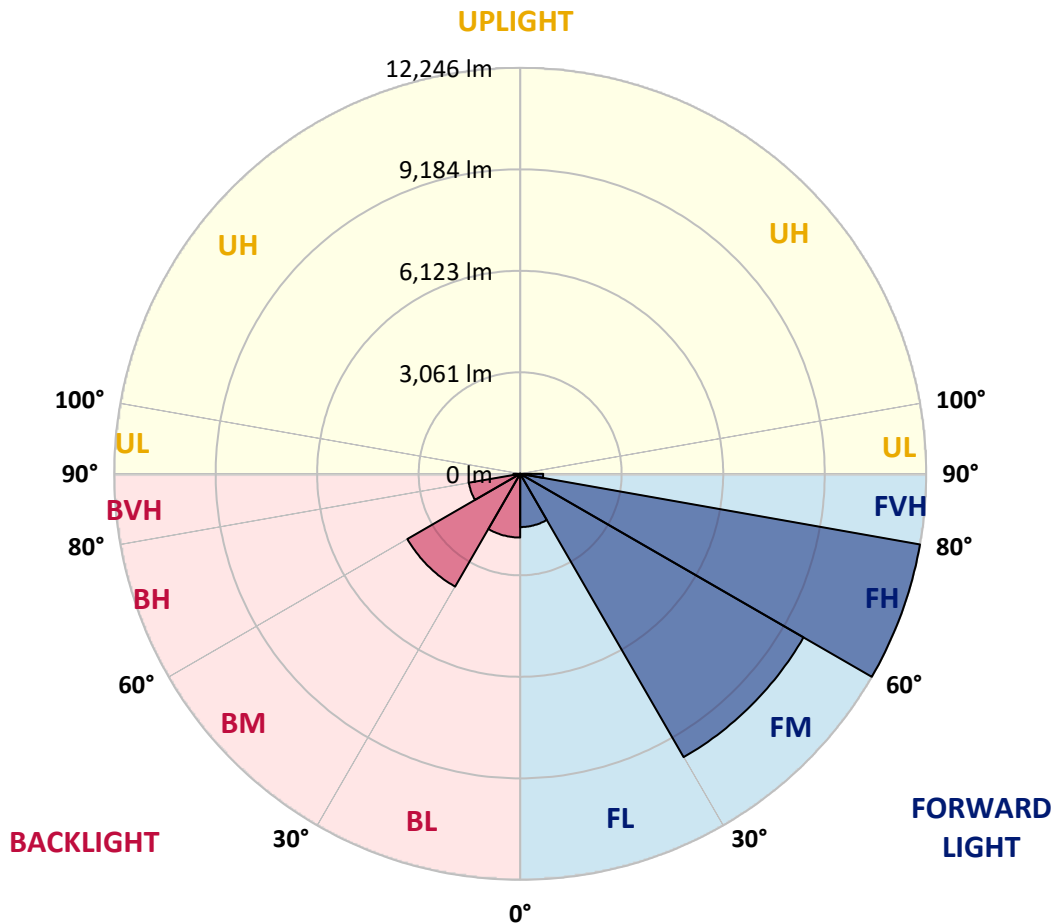
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.8	5.0			
FM (30°-60°)	9867.2	30.8			
FH (60°-80°)	12246.0	38.2			G5
FVH (80°-90°)	696.8	2.2			G4/750
BL (0°-30°)	1921.7	6.0	B3/2500		
BM (30°-60°)	3929.0	12.3	B3/5000		
BH (60°-80°)	1572.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	202.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8
2.5°	3937.2	3961.5	3971.9	3966.7	3992.7	3989.2	4025.6	4070.6	4133.0	4193.6
5°	3634.1	3660.1	3682.6	3703.4	3753.6	3769.2	3826.4	3913.0	4027.3	4143.4
7.5°	3351.8	3374.3	3408.9	3447.0	3531.9	3547.5	3642.8	3777.9	3937.2	4107.0
10°	3121.4	3143.9	3180.3	3223.6	3329.2	3348.3	3469.5	3649.7	3857.6	4072.3
12.5°	3022.6	3029.6	3050.4	3093.7	3185.5	3197.6	3331.0	3537.1	3779.6	4046.4
15°	3017.5	3031.3	3033.0	3055.6	3131.8	3137.0	3260.0	3464.4	3731.1	4041.2
17.5°	3069.4	3079.8	3064.2	3078.1	3142.2	3150.8	3247.8	3429.7	3715.5	4063.7
20°	3208.0	3216.7	3169.9	3150.8	3197.6	3204.5	3299.8	3452.2	3731.1	4110.5
22.5°	3502.5	3507.7	3393.3	3315.4	3318.8	3322.3	3405.5	3544.0	3791.7	4195.3
25°	3961.5	3958.0	3776.1	3625.4	3538.8	3519.8	3575.2	3693.0	3893.9	4307.9
27.5°	4498.5	4472.5	4290.6	4065.4	3876.6	3848.9	3836.8	3887.0	4039.4	4456.9
30°	5104.7	5080.5	4884.7	4590.3	4328.7	4283.7	4169.3	4143.4	4256.0	4659.6
32.5°	5769.9	5754.3	5520.4	5163.6	4813.7	4761.8	4569.5	4500.2	4588.5	4966.1
35°	6327.6	6313.8	6119.8	5752.6	5324.7	5260.6	5064.9	4986.9	5032.0	5359.4
37.5°	6831.7	6824.8	6658.5	6369.2	5927.5	5849.6	5629.6	5603.6	5594.9	5877.3
40°	7299.4	7282.1	7108.8	6956.4	6629.0	6558.0	6364.0	6341.5	6275.7	6514.7
42.5°	7817.3	7772.3	7521.1	7450.1	7361.7	7302.9	7186.8	7190.3	7044.8	7233.6
45°	8240.0	8214.0	7955.9	7914.3	8009.6	7985.3	8085.8	8111.8	7829.4	7987.1
47.5°	8693.8	8669.5	8451.3	8421.8	8679.9	8686.9	9042.0	9050.6	8595.1	8770.0
50°	9253.3	9218.6	9002.1	9038.5	9327.8	9353.7	10003.3	9944.4	9300.1	9565.1
52.5°	9622.2	9643.0	9596.3	9655.1	10050.1	10074.3	10949.1	10798.4	9998.1	10349.8
55°	9894.2	9935.8	10081.3	10216.4	10812.2	10836.5	11841.2	11610.8	10576.7	11077.3
57.5°	10244.1	10185.2	10457.1	10720.4	11536.3	11600.4	12709.0	12393.7	11089.4	11704.3
60°	10746.4	10704.8	10916.2	11305.9	12346.9	12449.1	13627.0	13098.7	11465.3	12201.4
62.5°	11764.9	11661.0	11693.9	12038.6	13368.9	13504.0	14662.9	13713.6	11652.3	12395.4
65°	13287.5	13109.1	12942.8	13181.9	14808.4	14941.7	15832.1	14196.9	11583.1	12019.6
67.5°	15205.0	15028.4	14824.0	15049.1	16928.6	17034.2	17275.0	14468.9	11037.4	10571.5
70°	16786.5	16720.7	16964.9	17891.6	20315.0	20318.4	19125.0	14243.7	9542.6	7495.1
72.5°	16576.9	16537.1	17824.1	20689.1	24583.0	24491.2	20876.2	12539.2	6428.1	3381.2
75°	13599.3	13857.4	15851.1	20638.9	26116.0	26103.9	19804.0	7971.5	2658.9	1401.3
77.5°	7292.5	7701.3	10290.9	15238.0	20387.7	20694.3	13923.2	2788.8	1141.5	897.3
80°	2378.3	2735.1	4101.8	7758.4	13247.7	13190.5	5967.3	1094.7	781.2	635.7
82.5°	1009.9	1051.4	1832.6	3663.6	6798.8	6693.1	1900.2	628.8	549.1	434.8
85°	394.9	441.7	808.9	1694.1	2944.7	2880.6	685.9	311.8	351.6	284.1
87.5°	129.9	157.6	289.3	580.3	916.3	883.4	168.0	107.4	152.4	129.9
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°
4269.8	0°	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8
4281.9	2.5°	4306.2	4333.9	4366.8	4415.3	4456.9	4491.5	4527.9	4550.4	4559.1	4585.1
4288.9	5°	4337.4	4398.0	4479.4	4559.1	4637.0	4683.8	4725.4	4746.2	4765.2	4779.1
4307.9	7.5°	4389.3	4467.3	4595.5	4699.4	4765.2	4803.3	4831.0	4824.1	4831.0	4834.5
4328.7	10°	4434.4	4543.5	4695.9	4794.7	4844.9	4846.6	4839.7	4815.4	4803.3	4805.1
4359.9	12.5°	4488.1	4609.3	4773.9	4857.0	4870.9	4832.8	4803.3	4761.8	4746.2	4739.2
4406.7	15°	4560.8	4699.4	4858.8	4889.9	4855.3	4806.8	4756.6	4689.0	4654.4	4626.6
4486.3	17.5°	4649.2	4801.6	4924.6	4902.1	4827.6	4747.9	4666.5	4564.3	4493.3	4463.8
4595.5	20°	4772.1	4909.0	4974.8	4876.1	4763.5	4642.2	4503.7	4378.9	4313.1	4283.7
4734.0	22.5°	4921.1	5052.8	5023.3	4831.0	4671.7	4477.7	4304.5	4212.7	4179.7	4159.0
4912.5	25°	5099.5	5212.1	5058.0	4765.2	4521.0	4259.4	4126.0	4096.6	4081.0	4065.4
5130.7	27.5°	5331.6	5392.3	5083.9	4668.2	4285.4	4027.3	3978.8	3984.0	3978.8	3952.8
5433.8	30°	5638.2	5626.1	5108.2	4510.6	4015.2	3817.7	3821.2	3843.7	3847.2	3829.8
5856.5	32.5°	6041.8	5918.8	5120.3	4306.2	3757.1	3634.1	3637.6	3661.8	3679.1	3649.7
6409.1	35°	6530.3	6260.1	5101.3	4049.8	3557.9	3459.2	3433.2	3440.1	3445.3	3417.6
7079.4	37.5°	7100.2	6642.9	5016.4	3765.8	3393.3	3287.7	3232.2	3185.5	3157.8	3131.8
7838.1	40°	7725.5	7060.3	4860.5	3488.6	3209.7	3105.8	3022.6	2934.3	2840.8	2806.1
8641.8	42.5°	8380.3	7489.9	4671.7	3223.6	2998.4	2913.5	2825.2	2697.0	2556.7	2485.7
9476.7	45°	9059.3	7929.9	4486.3	2962.0	2781.9	2745.5	2643.3	2489.1	2336.7	2246.6
10313.4	47.5°	9724.4	8345.6	4214.4	2698.7	2579.2	2619.0	2539.4	2397.3	2227.6	2085.5
11143.1	50°	10360.1	8735.4	3769.2	2432.0	2414.7	2580.9	2504.7	2300.3	2106.3	1924.4
11957.2	52.5°	10990.7	9050.6	3199.3	2189.5	2326.3	2570.5	2459.7	2234.5	1997.2	1806.7
12722.8	55°	11525.9	9213.4	2650.2	1981.6	2198.1	2482.2	2406.0	2156.6	1843.0	1640.4
13247.7	57.5°	11830.8	9081.8	2192.9	1777.2	2021.4	2336.7	2314.2	1990.3	1659.4	1503.5
13349.9	60°	11699.1	8548.3	1818.8	1598.8	1853.4	2179.1	2154.8	1825.7	1519.1	1371.9
12802.5	62.5°	10973.3	7531.5	1522.6	1442.9	1701.0	2018.0	1995.5	1699.3	1411.7	1269.7
11349.2	65°	9511.4	6126.7	1292.2	1313.0	1546.8	1824.0	1856.9	1593.6	1326.8	1188.3
8780.4	67.5°	7254.4	4437.8	1112.1	1200.4	1396.1	1633.4	1728.7	1517.4	1255.8	1124.2
5080.5	70°	4134.7	2520.3	959.6	1091.3	1262.8	1456.8	1630.0	1456.8	1179.6	1070.5
1903.7	72.5°	1567.6	1157.1	829.7	982.1	1134.6	1307.8	1520.9	1361.5	1091.3	1009.9
983.9	75°	836.6	705.0	698.1	854.0	987.3	1162.3	1384.0	1268.0	1025.4	1067.0
680.7	77.5°	569.9	498.9	583.7	731.0	826.2	1001.2	1238.5	1125.9	888.6	885.1
471.2	80°	394.9	353.4	474.6	588.9	639.2	841.8	1080.9	966.6	724.0	675.5
291.0	82.5°	237.3	230.4	355.1	440.0	452.1	649.6	895.5	810.7	592.4	516.2
173.2	85°	129.9	136.8	226.9	258.1	263.3	453.8	701.5	627.0	455.6	382.8
62.4	87.5°	36.4	46.8	83.1	102.2	126.4	235.6	417.5	372.4	228.6	159.4
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>
4269.8
4583.3
4782.5
4839.7
4808.5
4735.8
4635.3
4465.5
4280.2
4162.4
4065.4
3958.0
3838.5
3663.6
3436.6
3149.1
2821.7
2494.3
2239.7
2070.0
1908.9
1785.9
1623.0
1482.7
1351.1
1247.2
1165.8
1103.4
1056.6
996.0
<i>1101.7</i>
815.9
646.1
519.7
386.3
159.4
0.0

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