

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: P941209

Luminaire Tested: **GALN-SB4C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941209
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-SB4C-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28376 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

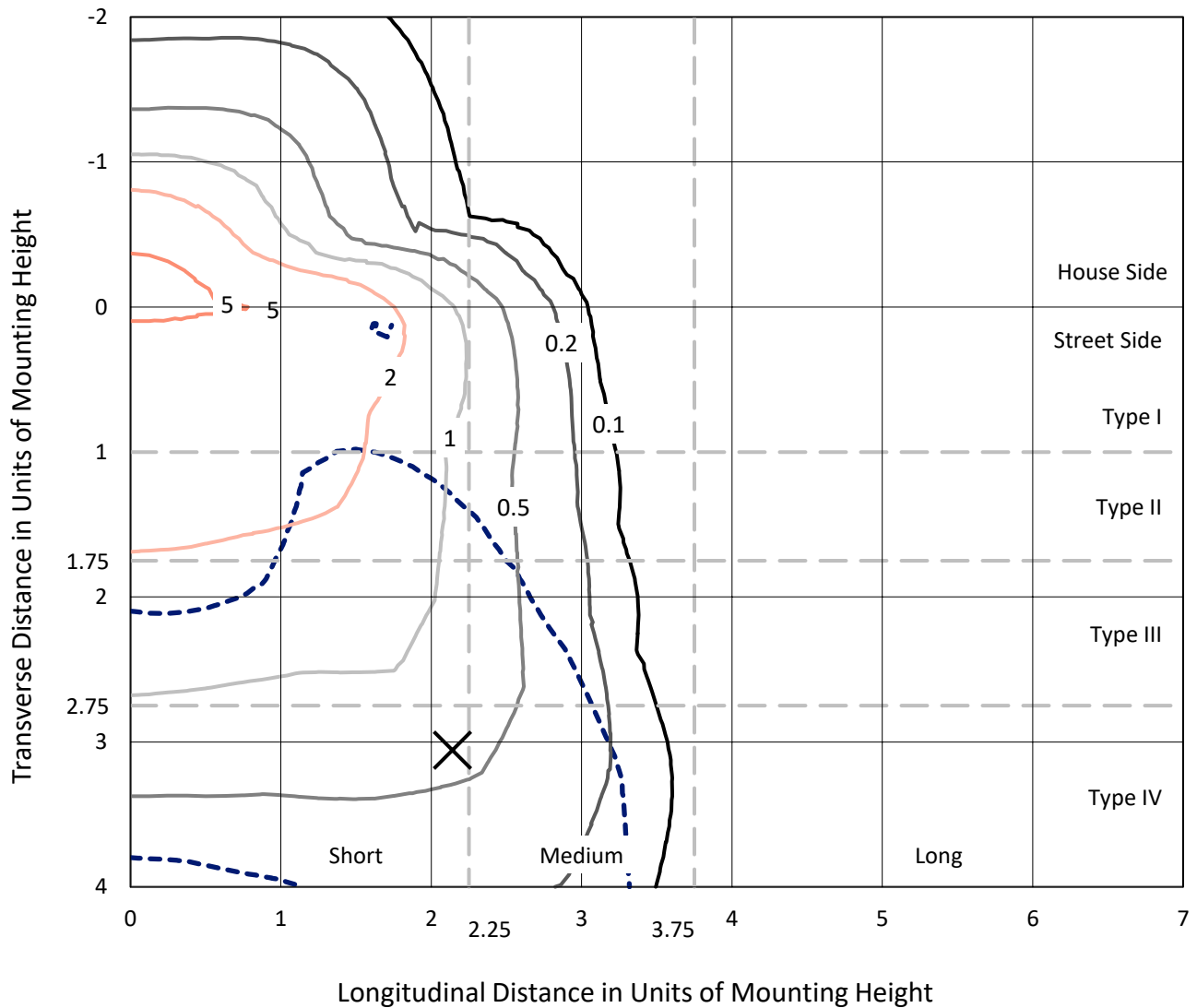
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

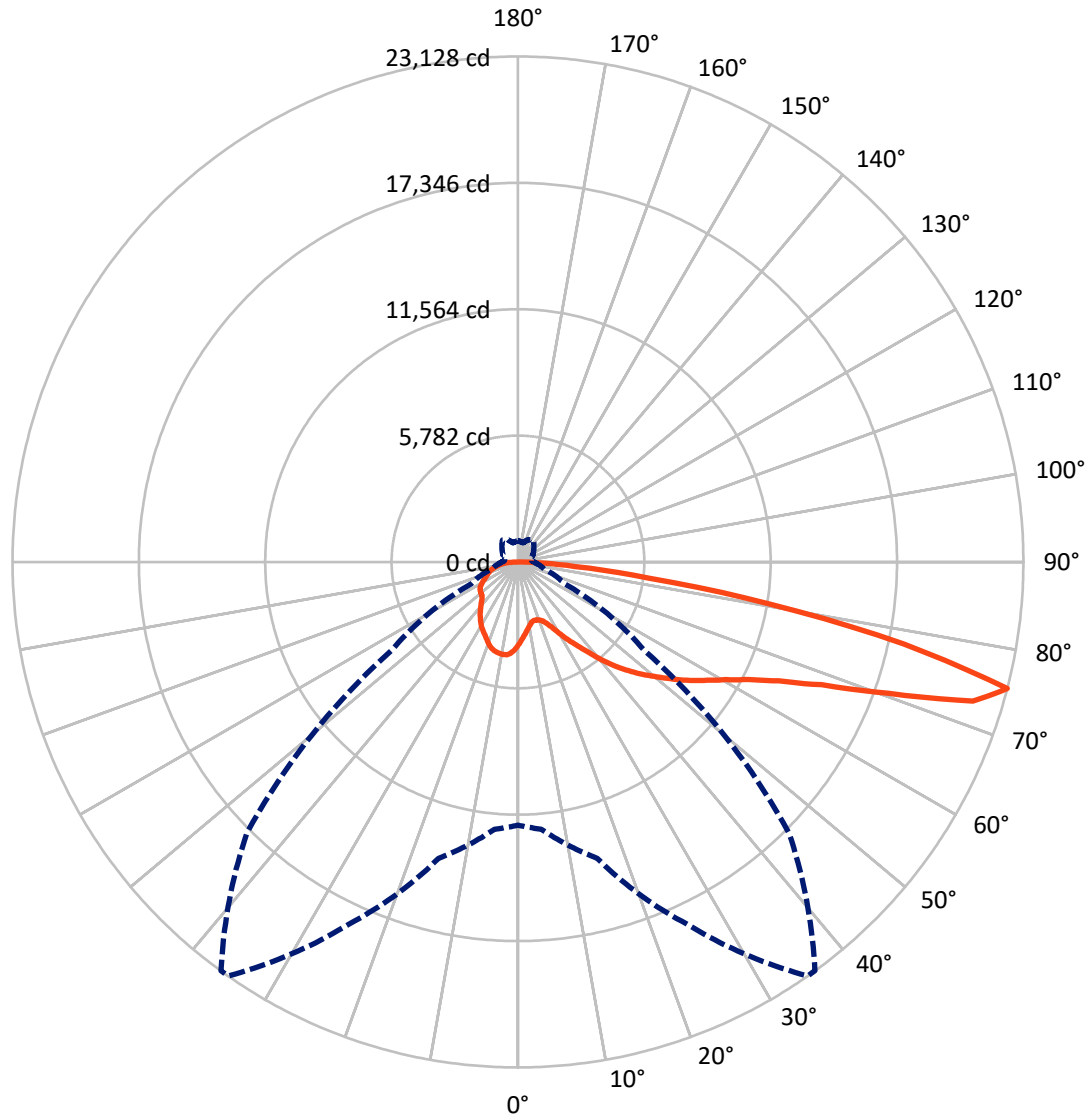
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6752.8	0.0	6752.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21623.2	0.0	21623.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	28376.0	0.0	28376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.0	1.3
10°-20°	1032.7	3.6
20°-30°	1734.1	6.1
30°-40°	2695.1	9.5
40°-50°	4000.2	14.1
50°-60°	5522.5	19.5
60°-70°	6700.0	23.6
70°-80°	5537.1	19.5
80°-90°	796.4	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°	28376.0	100.0
0°-180°	28376.0	100.0

Coefficient of Utilization



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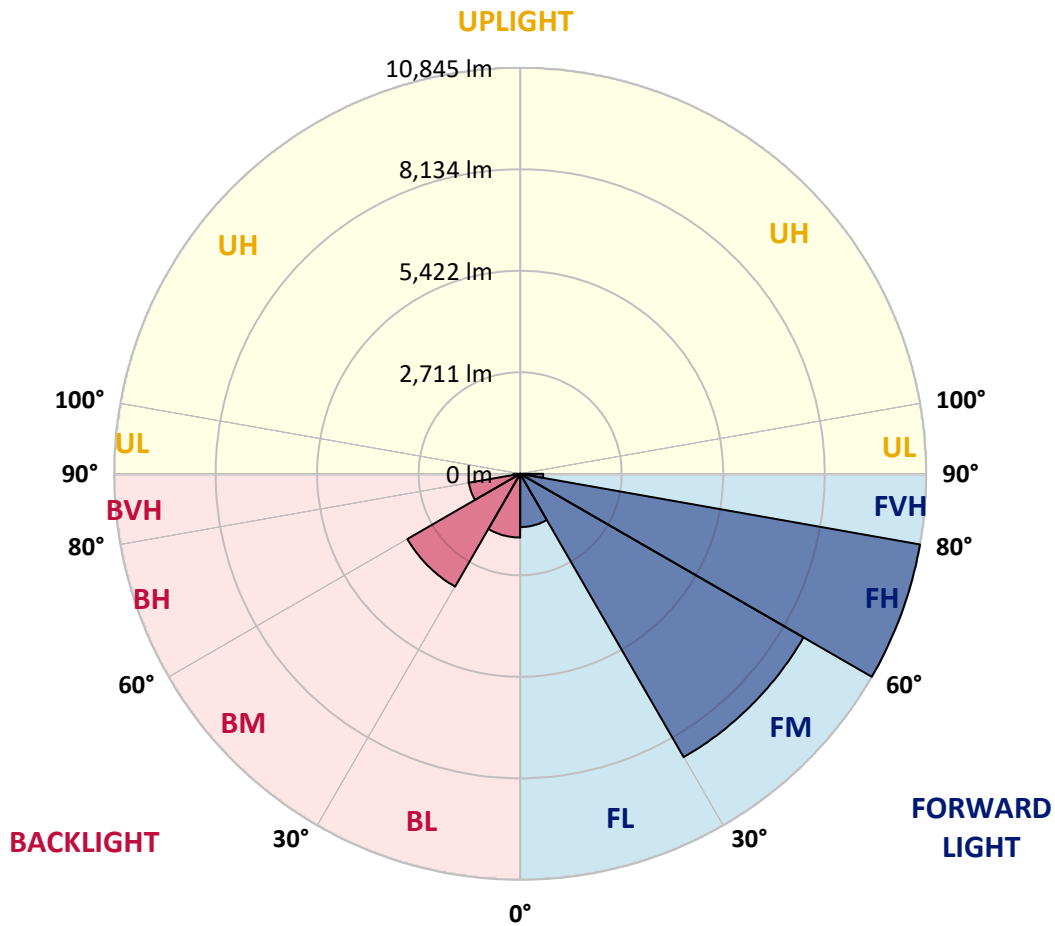
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.0	5.0			
FM (30°-60°)	8738.3	30.8			
FH (60°-80°)	10844.9	38.2			G4/12000
FVH (80°-90°)	617.1	2.2			G4/750
BL (0°-30°)	1701.8	6.0	B3/2500		
BM (30°-60°)	3479.4	12.3	B3/5000		
BH (60°-80°)	1392.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	179.3	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°	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3
2.5°	3486.8	3508.2	3517.4	3512.8	3535.9	3532.8	3565.0	3604.9	3660.1	3713.8
5°	3218.3	3241.3	3261.3	3279.7	3324.2	3338.0	3388.6	3465.3	3566.5	3669.3
7.5°	2968.3	2988.2	3018.9	3052.6	3127.8	3141.6	3226.0	3345.6	3486.8	3637.1
10°	2764.3	2784.2	2816.4	2854.8	2948.3	2965.2	3072.6	3232.1	3416.2	3606.4
12.5°	2676.8	2683.0	2701.4	2739.7	2821.0	2831.8	2949.9	3132.4	3347.2	3583.4
15°	2672.2	2684.5	2686.0	2706.0	2773.5	2778.1	2887.0	3068.0	3304.2	3578.8
17.5°	2718.2	2727.4	2713.6	2725.9	2782.7	2790.3	2876.2	3037.3	3290.4	3598.7
20°	2841.0	2848.6	2807.2	2790.3	2831.8	2837.9	2922.3	3057.2	3304.2	3640.2
22.5°	3101.7	3106.3	3005.1	2936.1	2939.1	2942.2	3015.8	3138.6	3357.9	3715.3
25°	3508.2	3505.2	3344.1	3210.6	3133.9	3117.1	3166.2	3270.5	3448.4	3815.0
27.5°	3983.8	3960.8	3799.7	3600.3	3433.1	3408.5	3397.8	3442.3	3577.3	3947.0
30°	4520.7	4499.2	4325.9	4065.1	3833.4	3793.6	3692.3	3669.3	3769.0	4126.4
32.5°	5109.7	5095.9	4888.8	4572.8	4263.0	4216.9	4046.7	3985.3	4063.5	4398.0
35°	5603.7	5591.4	5419.6	5094.4	4715.5	4658.7	4485.4	4416.4	4456.3	4746.2
37.5°	6050.1	6043.9	5896.7	5640.5	5249.3	5180.3	4985.5	4962.5	4954.8	5204.8
40°	6464.2	6448.9	6295.5	6160.5	5870.6	5807.7	5635.9	5616.0	5557.7	5769.3
42.5°	6922.9	6883.0	6660.6	6597.7	6519.5	6467.3	6364.5	6367.6	6238.8	6406.0
45°	7297.2	7274.2	7045.6	7008.8	7093.2	7071.7	7160.7	7183.7	6933.7	7073.2
47.5°	7699.1	7677.6	7484.4	7458.3	7686.8	7693.0	8007.4	8015.1	7611.7	7766.6
50°	8194.6	8163.9	7972.2	8004.4	8260.6	8283.6	8858.8	8806.7	8236.0	8470.7
52.5°	8521.3	8539.7	8498.3	8550.5	8900.2	8921.7	9696.4	9562.9	8854.2	9165.6
55°	8762.2	8799.0	8927.8	9047.5	9575.2	9596.7	10486.4	10282.4	9366.6	9809.9
57.5°	9072.0	9019.9	9260.7	9493.9	10216.4	10273.2	11254.9	10975.7	9820.6	10365.2
60°	9516.9	9480.1	9667.2	10012.4	10934.3	11024.8	12067.9	11600.1	10153.5	10805.5
62.5°	10418.9	10326.8	10356.0	10661.3	11839.4	11959.0	12985.3	12144.6	10319.2	10977.3
65°	11767.3	11609.3	11462.0	11673.7	13114.1	13232.2	14020.7	12572.6	10257.8	10644.4
67.5°	13465.4	13308.9	13127.9	13327.3	14991.7	15085.3	15298.5	12813.4	9774.6	9362.0
70°	14865.9	14807.6	15023.9	15844.6	17990.7	17993.7	16936.8	12614.0	8450.8	6637.6
72.5°	14680.3	14645.0	15784.8	18322.0	21770.4	21689.1	18487.7	11104.6	5692.6	2994.4
75°	12043.4	12271.9	14037.6	18277.5	23128.0	23117.3	17538.1	7059.4	2354.7	1241.0
77.5°	6458.1	6820.1	9113.5	13494.5	18055.1	18326.6	12330.2	2469.7	1010.9	794.6
80°	2106.2	2422.2	3632.5	6870.8	11732.0	11681.4	5284.6	969.5	691.8	563.0
82.5°	894.3	931.1	1623.0	3244.4	6020.9	5927.4	1682.8	556.8	486.3	385.0
85°	349.8	391.2	716.4	1500.2	2607.8	2551.0	607.5	276.1	311.4	251.6
87.5°	115.0	139.6	256.2	513.9	811.5	782.3	148.8	95.1	135.0	115.0
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°
3781.3	0°	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3	3781.3
3792.0	2.5°	3813.5	3838.1	3867.2	3910.1	3947.0	3977.6	4009.9	4029.8	4037.5	4060.5
3798.2	5°	3841.1	3894.8	3966.9	4037.5	4106.5	4147.9	4184.7	4203.1	4220.0	4232.3
3815.0	7.5°	3887.1	3956.2	4069.7	4161.7	4220.0	4253.8	4278.3	4272.2	4278.3	4281.4
3833.4	10°	3927.0	4023.7	4158.7	4246.1	4290.6	4292.1	4286.0	4264.5	4253.8	4255.3
3861.1	12.5°	3974.6	4082.0	4227.7	4301.3	4313.6	4279.8	4253.8	4216.9	4203.1	4197.0
3902.5	15°	4039.0	4161.7	4302.9	4330.5	4299.8	4256.8	4212.3	4152.5	4121.8	4097.3
3973.0	17.5°	4117.2	4252.2	4361.1	4341.2	4275.2	4204.7	4132.6	4042.1	3979.2	3953.1
4069.7	20°	4226.2	4347.3	4405.6	4318.2	4218.5	4111.1	3988.4	3877.9	3819.6	3793.6
4192.4	22.5°	4358.1	4474.7	4448.6	4278.3	4137.2	3965.4	3812.0	3730.7	3701.5	3683.1
4350.4	25°	4516.1	4615.8	4479.3	4220.0	4003.7	3772.1	3654.0	3627.9	3614.1	3600.3
4543.7	27.5°	4721.6	4775.3	4502.3	4134.1	3795.1	3566.5	3523.6	3528.2	3523.6	3500.6
4812.1	30°	4993.1	4982.4	4523.7	3994.5	3555.8	3380.9	3384.0	3403.9	3407.0	3391.7
5186.4	32.5°	5350.6	5241.7	4534.5	3813.5	3327.2	3218.3	3221.4	3242.9	3258.2	3232.1
5675.8	35°	5783.2	5543.9	4517.6	3586.5	3150.8	3063.4	3040.4	3046.5	3051.1	3026.6
6269.4	37.5°	6287.8	5882.9	4442.4	3334.9	3005.1	2911.5	2862.4	2821.0	2796.5	2773.5
6941.3	40°	6841.6	6252.6	4304.4	3089.5	2842.5	2750.5	2676.8	2598.6	2515.7	2485.1
7653.1	42.5°	7421.5	6633.0	4137.2	2854.8	2655.3	2580.2	2501.9	2388.4	2264.2	2201.3
8392.5	45°	8022.8	7022.6	3973.0	2623.1	2463.6	2431.4	2340.9	2204.3	2069.4	1989.6
9133.4	47.5°	8611.8	7390.8	3732.2	2390.0	2284.1	2319.4	2248.8	2123.0	1972.7	1846.9
9868.2	50°	9174.8	7735.9	3338.0	2153.7	2138.4	2285.7	2218.2	2037.1	1865.3	1704.3
10589.2	52.5°	9733.2	8015.1	2833.3	1939.0	2060.2	2276.4	2178.3	1978.9	1768.7	1600.0
11267.2	55°	10207.2	8159.3	2347.0	1754.9	1946.6	2198.2	2130.7	1909.8	1632.2	1452.7
11732.0	57.5°	10477.2	8042.7	1942.0	1573.9	1790.2	2069.4	2049.4	1762.6	1469.6	1331.5
11822.5	60°	10360.6	7570.3	1610.7	1415.9	1641.4	1929.8	1908.3	1616.8	1345.3	1214.9
11337.7	62.5°	9717.8	6669.8	1348.4	1277.8	1506.4	1787.1	1767.2	1504.8	1250.2	1124.4
10050.7	65°	8423.2	5425.7	1144.4	1162.8	1369.9	1615.3	1644.4	1411.3	1175.0	1052.3
7775.8	67.5°	6424.4	3930.1	984.8	1063.1	1236.4	1446.6	1530.9	1343.8	1112.1	995.6
4499.2	70°	3661.6	2232.0	849.8	966.4	1118.3	1290.1	1443.5	1290.1	1044.6	948.0
1685.9	72.5°	1388.3	1024.7	734.8	869.8	1004.8	1158.2	1346.8	1205.7	966.4	894.3
871.3	75°	740.9	624.3	618.2	756.3	874.4	1029.3	1225.7	1122.9	908.1	944.9
602.9	77.5°	504.7	441.8	517.0	647.3	731.7	886.6	1096.8	997.1	786.9	783.9
417.2	80°	349.8	312.9	420.3	521.6	566.0	745.5	957.2	856.0	641.2	598.3
257.7	82.5°	210.2	204.0	314.5	389.6	400.4	575.2	793.1	717.9	524.6	457.1
153.4	85°	115.0	121.2	201.0	228.6	233.2	401.9	621.3	555.3	403.4	339.0
55.2	87.5°	32.2	41.4	73.6	90.5	112.0	208.6	369.7	329.8	202.5	141.1
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>
3781.3
4058.9
4235.4
4286.0
4258.4
4193.9
4105.0
3954.6
3790.5
3686.2
3600.3
3505.2
3399.3
3244.4
3043.4
2788.8
2498.9
2209.0
1983.5
1833.1
1690.5
1581.5
1437.4
1313.1
1196.5
1104.5
1032.4
977.2
935.7
882.0
975.6
722.5
572.2
460.2
342.1
141.1
0.0

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