

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: P942879

Luminaire Tested: **GALN-SB7A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942879
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-SB7A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28332 lumens
Efficiency: N/A
Efficacy: 142.3 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

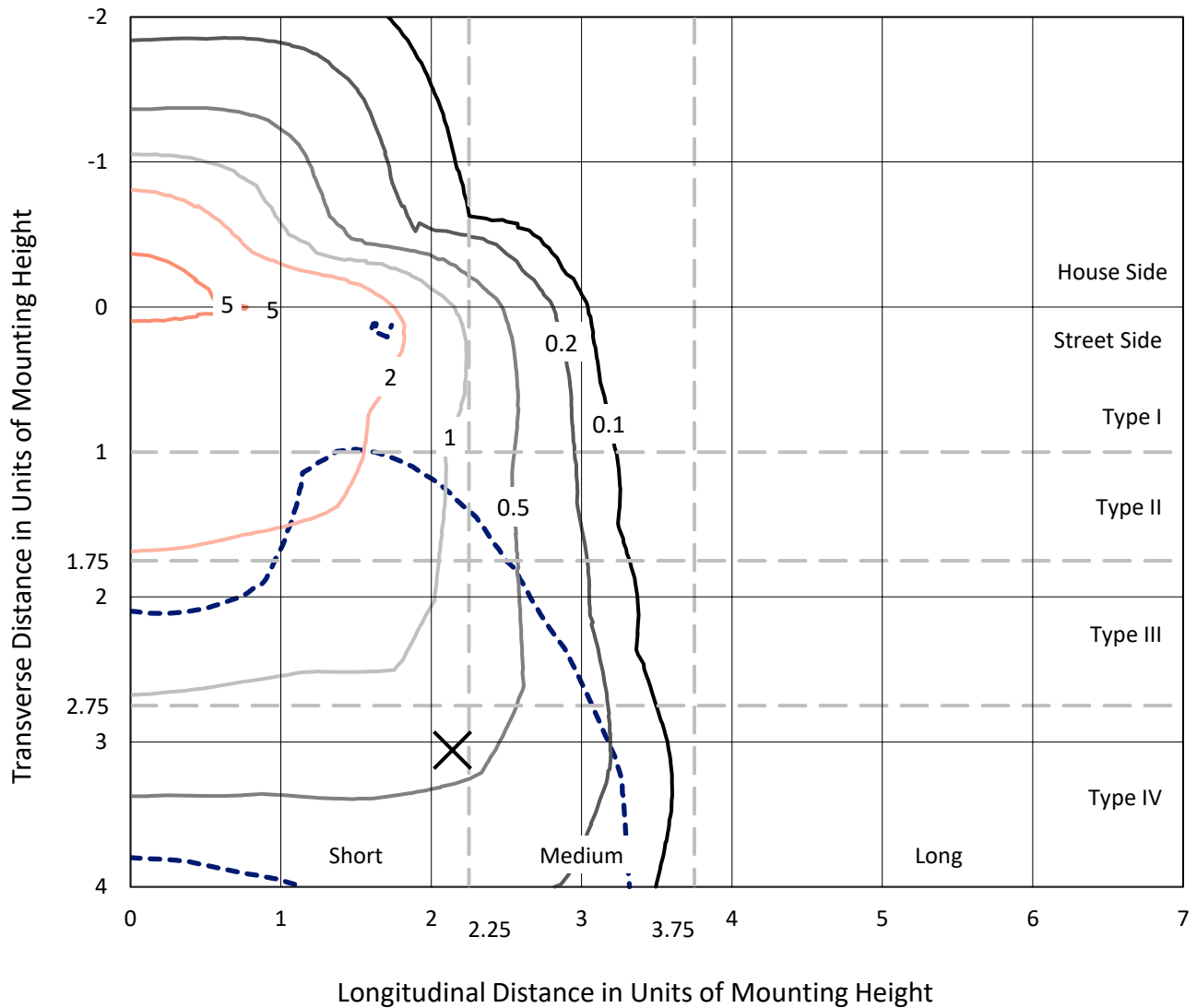
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

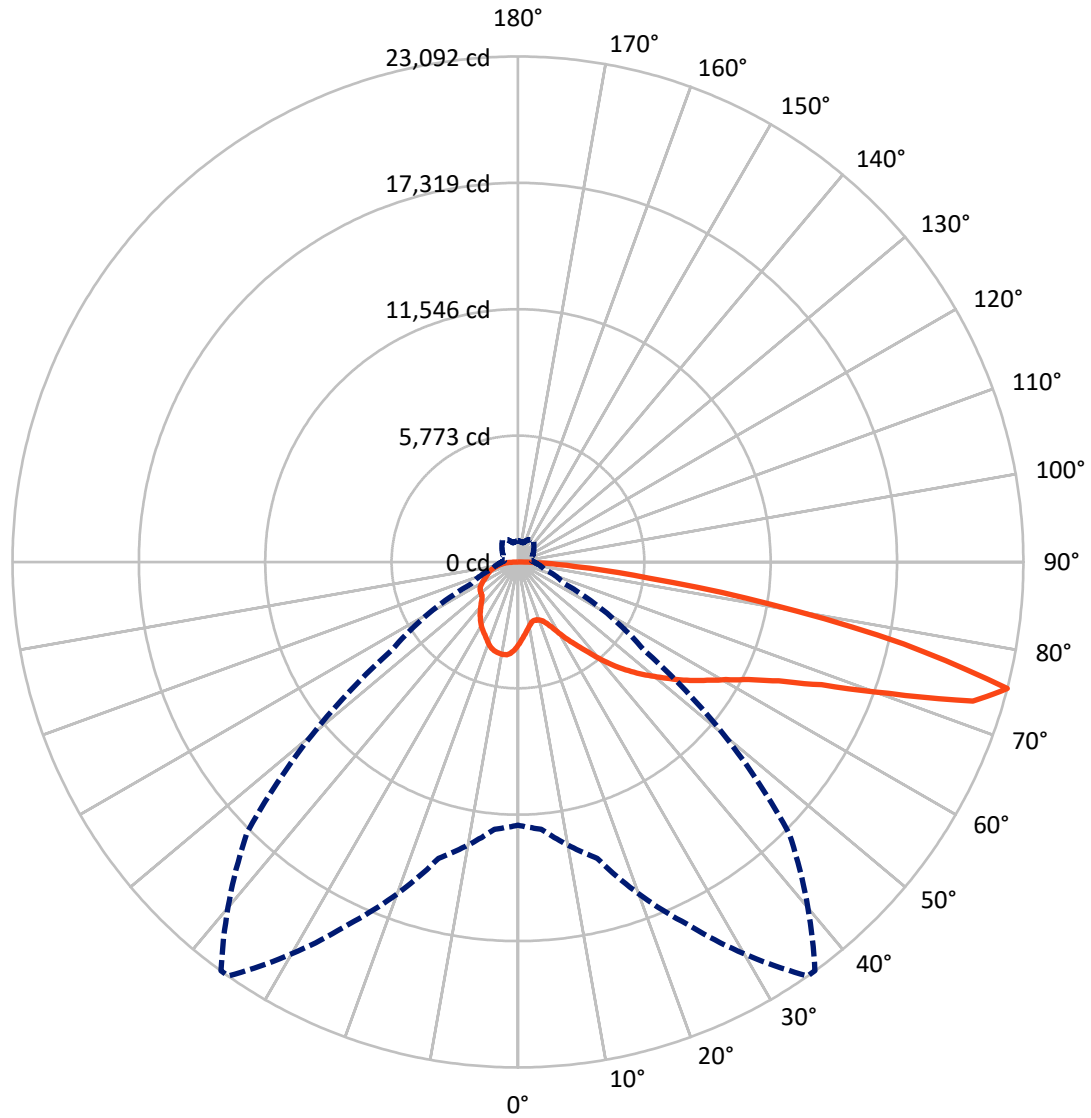
× Max cd
 - - - 1/2 Max cd



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	6742.3	0.0	6742.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21589.7	0.0	21589.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	28332.0	0.0	28332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.5	1.3
10°-20°	1031.1	3.6
20°-30°	1731.4	6.1
30°-40°	2690.9	9.5
40°-50°	3994.0	14.1
50°-60°	5513.9	19.5
60°-70°	6689.6	23.6
70°-80°	5528.5	19.5
80°-90°	795.2	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°	28332.0	100.0
0°-180°	28332.0	100.0

Coefficient of Utilization



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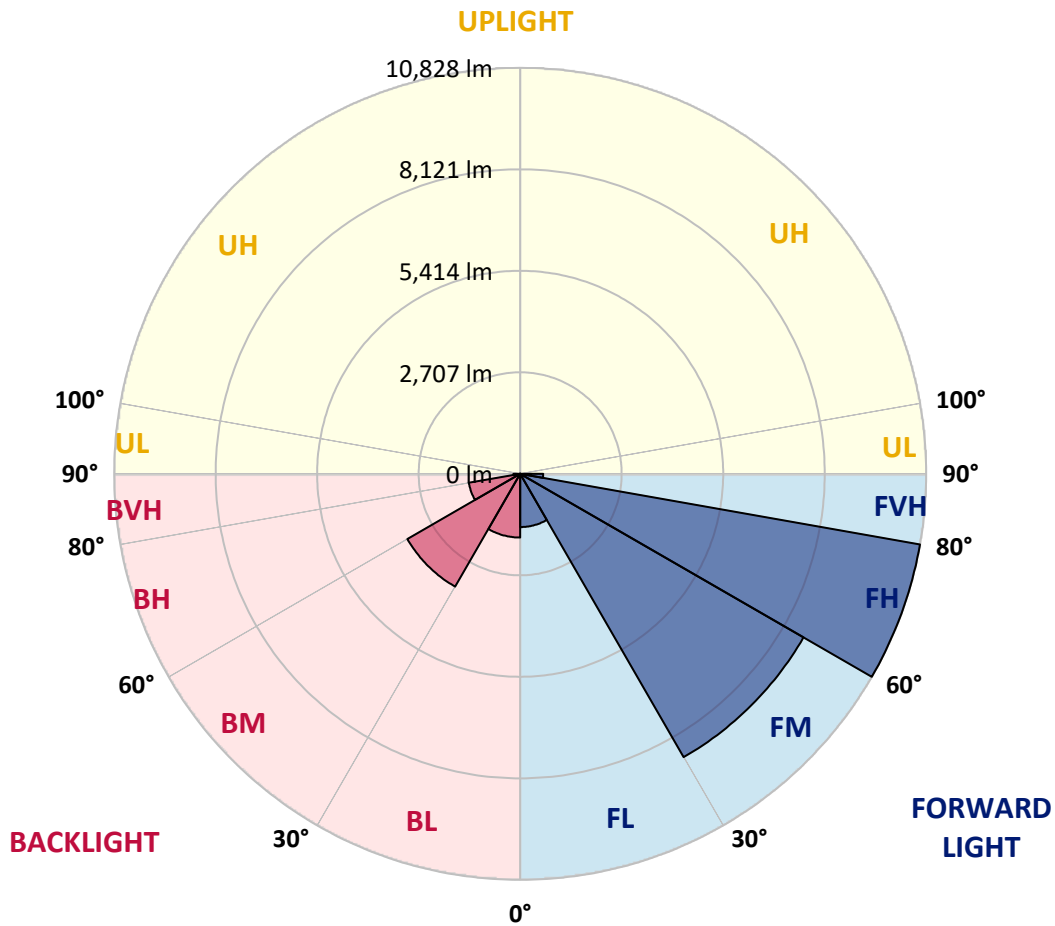
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.8	5.0			
FM (30°-60°)	8724.7	30.8			
FH (60°-80°)	10828.1	38.2			G4/12000
FVH (80°-90°)	616.1	2.2			G4/750
BL (0°-30°)	1699.2	6.0	B3/2500		
BM (30°-60°)	3474.0	12.3	B3/5000		
BH (60°-80°)	1390.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	179.1	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°	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4
2.5°	3481.4	3502.8	3512.0	3507.4	3530.4	3527.3	3559.5	3599.3	3654.4	3708.0
5°	3213.3	3236.3	3256.2	3274.6	3319.0	3332.8	3383.3	3459.9	3561.0	3663.6
7.5°	2963.7	2983.6	3014.2	3047.9	3123.0	3136.7	3221.0	3340.5	3481.4	3631.5
10°	2760.0	2779.9	2812.0	2850.3	2943.8	2960.6	3067.8	3227.1	3410.9	3600.8
12.5°	2672.7	2678.8	2697.2	2735.5	2816.6	2827.4	2945.3	3127.6	3342.0	3577.9
15°	2668.1	2680.3	2681.9	2701.8	2769.2	2773.8	2882.5	3063.2	3299.1	3573.3
17.5°	2714.0	2723.2	2709.4	2721.7	2778.3	2786.0	2871.8	3032.6	3285.3	3593.2
20°	2836.6	2844.2	2802.9	2786.0	2827.4	2833.5	2917.7	3052.5	3299.1	3634.5
22.5°	3096.9	3101.5	3000.4	2931.5	2934.6	2937.6	3011.2	3133.7	3352.7	3709.6
25°	3502.8	3499.7	3338.9	3205.7	3129.1	3112.2	3161.3	3265.4	3443.1	3809.1
27.5°	3977.6	3954.6	3793.8	3594.7	3427.8	3403.2	3392.5	3436.9	3571.7	3940.8
30°	4513.7	4492.2	4319.2	4058.8	3827.5	3787.7	3686.6	3663.6	3763.2	4120.0
32.5°	5101.8	5088.0	4881.3	4565.7	4256.4	4210.4	4040.4	3979.1	4057.2	4391.1
35°	5595.0	5582.7	5411.2	5086.5	4708.2	4651.5	4478.4	4409.5	4449.3	4738.8
37.5°	6040.7	6034.6	5887.5	5631.7	5241.2	5172.3	4977.7	4954.8	4947.1	5196.8
40°	6454.2	6438.9	6285.7	6151.0	5861.5	5798.7	5627.2	5607.2	5549.0	5760.4
42.5°	6912.2	6872.4	6650.3	6587.5	6509.4	6457.3	6354.7	6357.7	6229.1	6396.0
45°	7285.9	7262.9	7034.7	6997.9	7082.2	7060.7	7149.6	7172.6	6922.9	7062.3
47.5°	7687.2	7665.7	7472.7	7446.7	7674.9	7681.0	7995.0	8002.7	7599.9	7754.6
50°	8181.9	8151.3	7959.8	7992.0	8247.7	8270.7	8845.1	8793.0	8223.2	8457.6
52.5°	8508.1	8526.5	8485.1	8537.2	8886.4	8907.9	9681.3	9548.1	8840.5	9151.4
55°	8748.6	8785.3	8914.0	9033.5	9560.3	9581.8	10470.1	10266.4	9352.0	9794.7
57.5°	9058.0	9005.9	9246.4	9479.2	10200.6	10257.2	11237.5	10958.7	9805.4	10349.1
60°	9502.1	9465.4	9652.2	9996.9	10917.4	11007.7	12049.2	11582.1	10137.8	10788.7
62.5°	10402.7	10310.8	10339.9	10644.7	11821.0	11940.5	12965.1	12125.8	10303.2	10960.2
65°	11749.0	11591.3	11444.2	11655.6	13093.8	13211.7	13999.0	12553.1	10241.9	10627.9
67.5°	13444.5	13288.3	13107.6	13306.7	14968.5	15061.9	15274.8	12793.6	9759.4	9347.4
70°	14842.9	14784.7	15000.6	15820.1	17962.8	17965.8	16910.6	12594.5	8437.7	6627.3
72.5°	14657.6	14622.3	15760.3	18293.6	21736.7	21655.5	18459.0	11087.4	5683.8	2989.7
75°	12024.7	12252.9	14015.8	18249.2	23092.2	23081.4	17511.0	7048.5	2351.0	1239.1
77.5°	6448.1	6809.6	9099.3	13473.6	18027.1	18298.2	12311.1	2465.9	1009.3	793.4
80°	2102.9	2418.4	3626.9	6860.1	11713.8	11663.2	5276.4	968.0	690.8	562.1
82.5°	892.9	929.7	1620.4	3239.4	6011.6	5918.2	1680.2	556.0	485.5	384.4
85°	349.2	390.6	715.3	1497.9	2603.7	2547.1	606.5	275.7	310.9	251.2
87.5°	114.9	139.4	255.8	513.1	810.2	781.1	148.6	95.0	134.8	114.9
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°
3775.4	0°	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4
3786.2	2.5°	3807.6	3832.1	3861.2	3904.1	3940.8	3971.5	4003.6	4023.6	4031.2	4054.2
3792.3	5°	3835.2	3888.8	3960.8	4031.2	4100.1	4141.5	4178.2	4196.6	4213.5	4225.7
3809.1	7.5°	3881.1	3950.0	4063.4	4155.3	4213.5	4247.2	4271.7	4265.5	4271.7	4274.7
3827.5	10°	3920.9	4017.4	4152.2	4239.5	4283.9	4285.5	4279.3	4257.9	4247.2	4248.7
3855.1	12.5°	3968.4	4075.6	4221.1	4294.6	4306.9	4273.2	4247.2	4210.4	4196.6	4190.5
3896.4	15°	4032.7	4155.3	4296.2	4323.7	4293.1	4250.2	4205.8	4146.1	4115.4	4090.9
3966.9	17.5°	4110.9	4245.6	4354.4	4334.5	4268.6	4198.2	4126.2	4035.8	3973.0	3947.0
4063.4	20°	4219.6	4340.6	4398.8	4311.5	4211.9	4104.7	3982.2	3871.9	3813.7	3787.7
4185.9	22.5°	4351.3	4467.7	4441.7	4271.7	4130.8	3959.2	3806.1	3724.9	3695.8	3677.4
4343.7	25°	4509.1	4608.6	4472.3	4213.5	3997.5	3766.2	3648.3	3622.3	3608.5	3594.7
4536.6	27.5°	4714.3	4767.9	4495.3	4127.7	3789.2	3561.0	3518.1	3522.7	3518.1	3495.1
4804.7	30°	4985.4	4974.7	4516.7	3988.3	3550.3	3375.7	3378.7	3398.7	3401.7	3386.4
5178.4	32.5°	5342.3	5233.5	4527.5	3807.6	3322.1	3213.3	3216.4	3237.8	3253.1	3227.1
5667.0	35°	5774.2	5535.3	4510.6	3580.9	3145.9	3058.6	3035.7	3041.8	3046.4	3021.9
6259.7	37.5°	6278.1	5873.7	4435.6	3329.7	3000.4	2907.0	2858.0	2816.6	2792.1	2769.2
6930.6	40°	6831.0	6242.9	4297.7	3084.7	2838.1	2746.2	2672.7	2594.6	2511.8	2481.2
7641.2	42.5°	7410.0	6622.7	4130.8	2850.3	2651.2	2576.2	2498.1	2384.7	2260.7	2197.9
8379.5	45°	8010.3	7011.7	3966.9	2619.1	2459.8	2427.6	2337.2	2200.9	2066.1	1986.5
9119.2	47.5°	8598.5	7379.3	3726.4	2386.3	2280.6	2315.8	2245.3	2119.8	1969.7	1844.1
9852.9	50°	9160.6	7723.9	3332.8	2150.4	2135.1	2282.1	2214.7	2034.0	1862.4	1701.6
10572.7	52.5°	9718.1	8002.7	2828.9	1936.0	2057.0	2272.9	2174.9	1975.8	1766.0	1597.5
11249.7	55°	10191.4	8146.7	2343.4	1752.2	1943.6	2194.8	2127.4	1906.9	1629.6	1450.4
11713.8	57.5°	10460.9	8030.3	1939.0	1571.4	1787.4	2066.1	2046.2	1759.8	1467.3	1329.4
11804.2	60°	10344.5	7558.5	1608.2	1413.7	1638.8	1926.8	1905.3	1614.3	1343.2	1213.0
11320.2	62.5°	9702.8	6659.5	1346.3	1275.8	1504.0	1784.3	1764.4	1502.5	1248.3	1122.7
10035.1	65°	8410.1	5417.3	1142.6	1161.0	1367.7	1612.8	1641.9	1409.1	1173.2	1050.7
7763.8	67.5°	6414.4	3924.0	983.3	1061.4	1234.5	1444.3	1528.6	1341.7	1110.4	994.0
4492.2	70°	3656.0	2228.5	848.5	964.9	1116.5	1288.1	1441.2	1288.1	1043.0	946.5
1683.2	72.5°	1386.1	1023.1	733.6	868.4	1003.2	1156.4	1344.8	1203.8	964.9	892.9
870.0	75°	739.8	623.4	617.2	755.1	873.0	1027.7	1223.8	1121.1	906.7	943.5
601.9	77.5°	503.9	441.1	516.2	646.3	730.6	885.3	1095.1	995.5	785.7	782.7
416.6	80°	349.2	312.4	419.7	520.7	565.2	744.4	955.7	854.6	640.2	597.3
257.3	82.5°	209.8	203.7	314.0	389.0	399.8	574.4	791.8	716.8	523.8	456.4
153.2	85°	114.9	121.0	200.6	228.2	232.8	401.3	620.3	554.4	402.8	338.5
55.1	87.5°	32.2	41.4	73.5	90.4	111.8	208.3	369.1	329.3	202.2	140.9
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>
3775.4
4052.7
4228.8
4279.3
4251.8
4187.4
4098.6
3948.5
3784.6
3680.5
3594.7
3499.7
3394.1
3239.4
3038.7
2784.5
2495.0
2205.5
1980.4
1830.3
1687.8
1579.1
1435.1
1311.1
1194.7
1102.8
1030.8
975.6
934.3
880.7
974.1
721.4
571.3
459.5
341.6
140.9
0.0

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