

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: P953729

Luminaire Tested: **GALN-SB7A-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23427 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

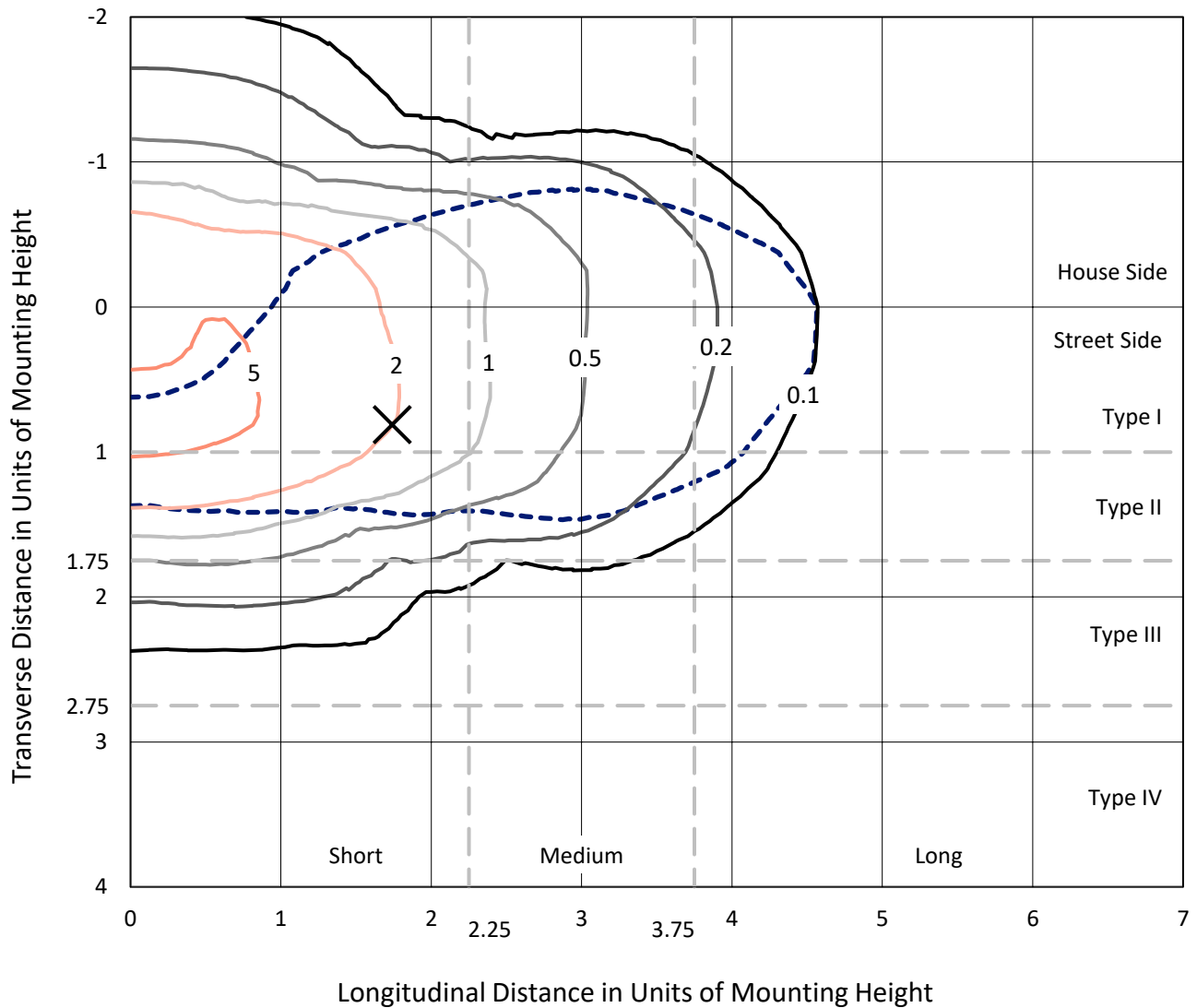
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

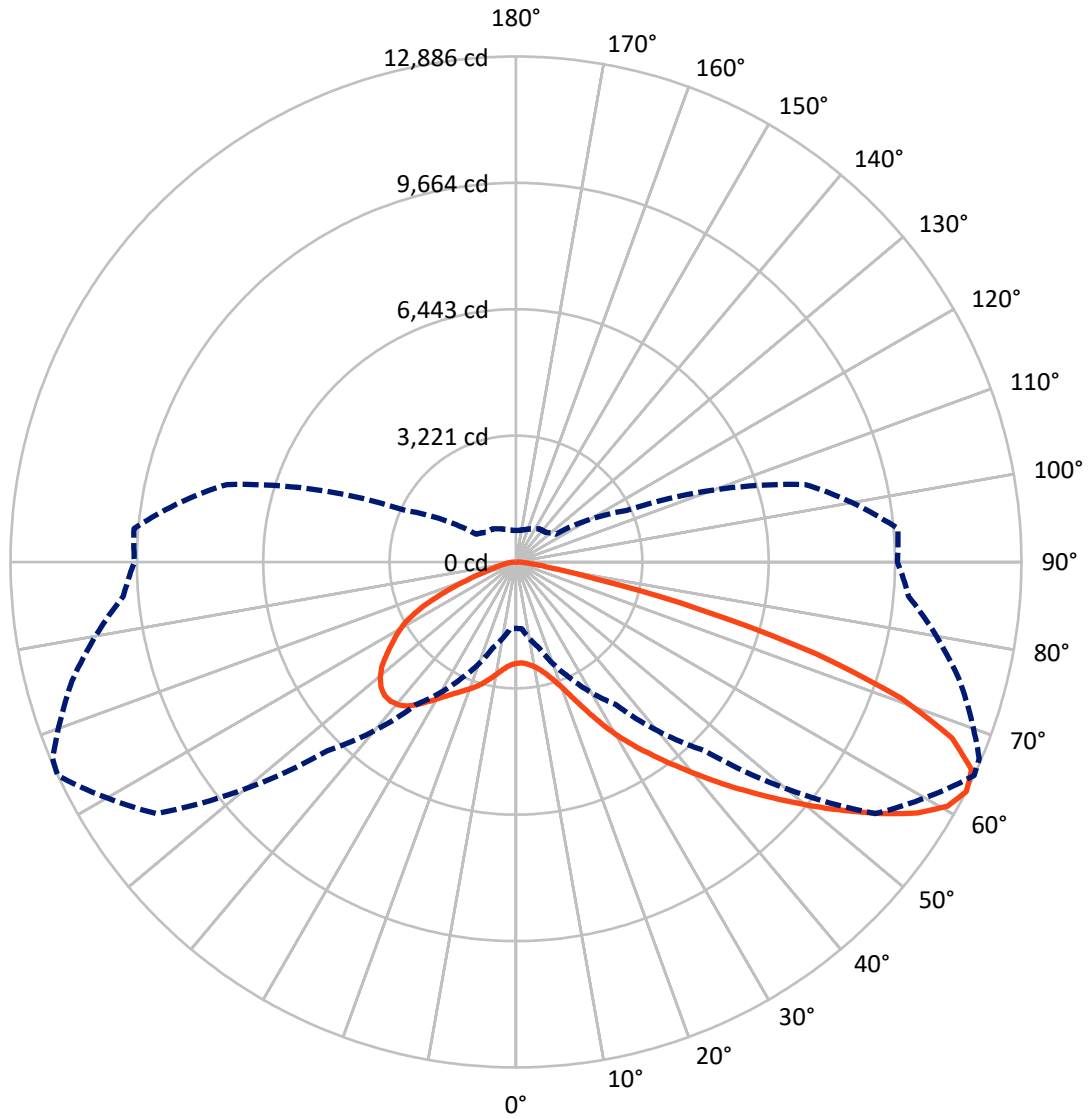
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7392.5	0.0	7392.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16034.5	0.0	16034.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	23427.0	0.0	23427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.1
10°-20°	872.8	3.7
20°-30°	1769.7	7.6
30°-40°	3062.4	13.1
40°-50°	4634.4	19.8
50°-60°	5433.5	23.2
60°-70°	4555.3	19.4
70°-80°	2514.9	10.7
80°-90°	326.7	1.4
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°	23427.0	100.0
0°-180°	23427.0	100.0



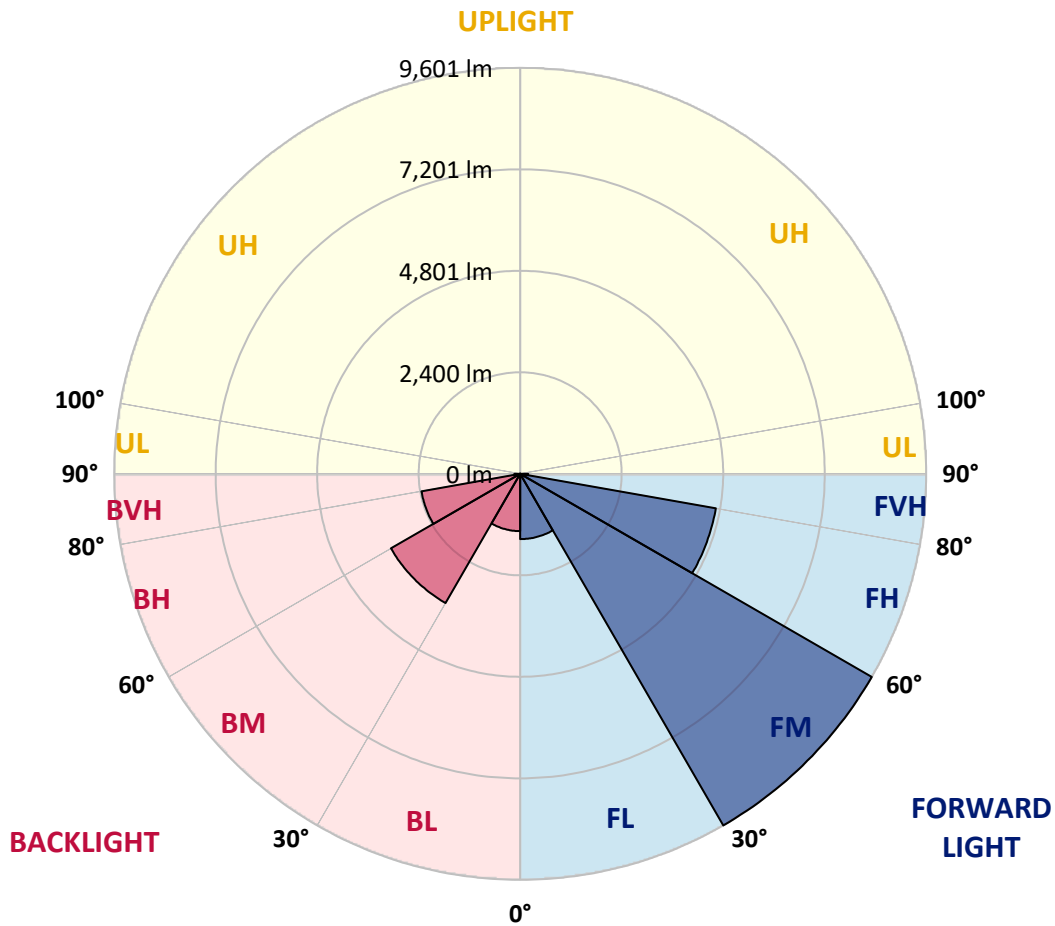
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.1	6.6			
FM (30°-60°)	9601.2	41.0			
FH (60°-80°)	4698.8	20.1			G2/5000
FVH (80°-90°)	190.4	0.8			G2/225
BL (0°-30°)	1355.7	5.8	B3/2500		
BM (30°-60°)	3529.1	15.1	B3/5000		
BH (60°-80°)	2371.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	136.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6
2.5°	2564.5	2557.2	2563.3	2563.3	2565.8	2564.5	2573.0	2575.5	2579.1	2586.4
5°	2539.0	2537.8	2548.7	2558.5	2568.2	2576.7	2587.6	2603.4	2605.9	2614.4
7.5°	2530.5	2523.2	2540.2	2552.4	2575.5	2596.1	2625.3	2652.0	2663.0	2666.6
10°	2596.1	2584.0	2599.8	2607.1	2626.5	2647.2	2681.2	2723.8	2735.9	2750.5
12.5°	2708.0	2694.6	2717.7	2728.6	2746.9	2765.1	2788.2	2829.5	2835.6	2862.3
15°	2861.1	2845.3	2859.9	2873.3	2903.6	2920.7	2943.7	2983.9	2983.9	3004.5
17.5°	3068.9	3048.3	3059.2	3064.1	3083.5	3109.0	3147.9	3183.2	3201.4	3194.1
20°	3378.9	3353.3	3353.3	3329.0	3321.7	3342.4	3393.5	3442.1	3461.5	3423.8
22.5°	3844.4	3807.9	3787.3	3704.6	3671.8	3674.2	3725.3	3784.8	3800.6	3733.8
25°	4436.3	4379.2	4351.2	4229.7	4155.5	4091.1	4131.2	4207.8	4229.7	4147.0
27.5°	5028.2	5031.8	5005.1	4859.3	4736.5	4618.6	4597.9	4678.2	4701.2	4607.7
30°	5858.3	5772.0	5721.0	5546.0	5370.9	5205.6	5120.6	5153.4	5159.5	5047.6
32.5°	6574.2	6552.3	6442.9	6289.8	6064.9	5806.1	5663.9	5611.6	5601.9	5442.7
35°	7389.8	7377.6	7262.1	7079.8	6836.7	6477.0	6220.5	6071.0	6058.9	5835.2
37.5°	8218.7	8218.7	8105.6	7906.3	7654.7	7205.0	6814.9	6577.9	6539.0	6247.3
40°	8879.9	8839.8	8860.4	8776.6	8488.5	8010.8	7474.8	7130.9	7078.6	6728.6
42.5°	9255.4	9242.1	9366.0	9459.6	9341.7	8960.1	8201.7	7730.1	7657.2	7258.5
45°	9339.3	9324.7	9545.9	9888.7	10054.0	9897.2	8991.7	8360.9	8272.2	7812.7
47.5°	9146.0	9116.9	9441.4	9982.3	10512.2	10788.1	9847.3	9045.2	8916.3	8352.4
50°	8565.1	8537.1	9028.1	9746.5	10666.5	11393.4	10775.9	9770.8	9573.9	8930.9
52.5°	7302.2	7315.6	8085.0	9071.9	10463.6	11770.1	11575.7	10535.3	10298.3	9522.8
55°	5688.2	5717.3	6662.9	7749.5	9651.7	11713.0	12121.4	11322.9	11087.1	10079.5
57.5°	4072.9	4201.7	5087.8	6163.4	8092.3	10807.5	12240.5	12071.6	11843.1	10687.2
60°	2639.9	2663.0	3574.6	4658.7	6162.2	9198.3	11998.6	12639.2	12460.5	11307.1
62.5°	1691.9	1707.7	2263.1	3258.5	4435.1	6805.1	11184.3	12885.9	12831.2	11716.7
65°	1243.4	1231.2	1520.5	2153.7	2987.5	4196.8	9603.0	12766.8	12875.0	11973.1
67.5°	1038.0	1021.0	1163.2	1491.3	2201.1	2383.4	7105.4	11992.6	12388.8	11943.9
70°	945.6	931.0	1017.3	1107.2	1717.4	1595.8	3581.8	10425.9	11036.0	11612.1
72.5°	801.0	775.4	893.3	983.3	1335.7	1223.9	1480.4	8008.4	8752.2	10548.6
75°	621.1	604.1	704.9	865.4	1003.9	955.3	935.9	4862.9	5674.8	8157.9
77.5°	492.2	469.2	561.5	674.6	903.1	720.7	681.9	2094.2	2898.8	5208.1
80°	370.7	350.0	426.6	533.6	694.0	543.3	441.2	854.4	1092.7	2638.7
82.5°	263.7	245.5	297.8	391.4	466.7	487.4	271.0	478.9	538.4	1017.3
85°	168.9	158.0	199.3	245.5	296.6	313.6	165.3	250.4	274.7	419.3
87.5°	92.4	75.4	107.0	114.2	137.3	125.2	79.0	91.2	98.4	151.9
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°
2581.6	0°	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6
2586.4	2.5°	2591.3	2594.9	2607.1	2610.7	2619.2	2630.2	2637.5	2644.8	2644.8	2652.0
2625.3	5°	2626.5	2635.0	2660.6	2673.9	2695.8	2717.7	2731.1	2746.9	2756.6	2761.4
2687.3	7.5°	2694.6	2708.0	2744.4	2767.5	2805.2	2835.6	2856.2	2878.1	2883.0	2896.3
2773.6	10°	2787.0	2802.8	2844.1	2887.8	2932.8	2970.5	2989.9	3005.7	3011.8	3014.2
2884.2	12.5°	2892.7	2915.8	2969.3	3022.8	3070.2	3103.0	3107.8	3104.2	3087.2	3072.6
3020.3	15°	3022.8	3043.4	3103.0	3161.3	3207.5	3213.6	3183.2	3163.7	3143.1	3139.4
3172.2	17.5°	3178.3	3189.3	3244.0	3301.1	3304.7	3284.1	3239.1	3220.9	3201.4	3188.0
3370.4	20°	3359.4	3355.8	3394.7	3419.0	3393.5	3330.3	3262.2	3231.8	3212.4	3196.6
3613.4	22.5°	3575.8	3547.8	3543.0	3536.9	3468.8	3336.3	3244.0	3205.1	3174.7	3152.8
3952.5	25°	3890.6	3783.6	3709.5	3668.1	3515.0	3303.5	3185.6	3099.3	3042.2	3004.5
4367.0	27.5°	4284.4	4104.5	3917.3	3816.4	3515.0	3236.7	3044.6	2904.9	2811.3	2772.4
4768.1	30°	4659.9	4471.5	4195.6	3995.1	3506.5	3127.3	2817.3	2622.9	2513.5	2474.6
5110.8	32.5°	4980.8	4775.4	4491.0	4190.8	3485.8	2949.8	2535.4	2320.2	2214.5	2168.3
5449.9	35°	5278.6	5059.8	4787.5	4405.9	3431.1	2689.7	2225.4	2061.4	1943.5	1869.3
5795.1	37.5°	5583.6	5323.5	5068.3	4600.4	3332.7	2385.9	1987.2	1847.4	1708.9	1609.2
6162.2	40°	5915.5	5604.3	5368.5	4715.8	3171.0	2096.6	1802.5	1674.8	1527.8	1422.0
6585.1	42.5°	6303.2	5941.0	5702.8	4775.4	2949.8	1891.2	1682.1	1557.0	1418.4	1332.1
7038.5	45°	6707.9	6311.7	6007.8	4774.2	2703.1	1795.2	1643.2	1519.3	1366.1	1276.2
7504.0	47.5°	7132.1	6699.4	6271.6	4696.4	2489.2	1808.5	1621.4	1437.8	1268.9	1181.4
7974.4	50°	7557.5	7123.6	6526.8	4550.5	2398.0	1779.4	1539.9	1323.6	1124.3	1045.3
8415.6	52.5°	7979.2	7574.5	6746.8	4342.7	2305.7	1671.2	1435.4	1175.3	1064.7	1010.0
8871.4	55°	8403.4	8020.6	6986.2	4040.1	2074.7	1544.8	1260.4	1119.4	1017.3	967.5
9317.4	57.5°	8828.8	8535.9	7213.5	3737.4	1784.2	1389.2	1164.4	1051.3	969.9	927.4
9690.6	60°	9271.2	9125.4	7448.1	3459.1	1497.4	1189.9	1093.9	996.6	914.0	866.6
10049.1	62.5°	9727.0	9774.4	7631.6	3100.5	1233.7	1068.4	1030.7	931.0	850.8	805.8
10345.7	65°	10186.4	10400.4	7752.0	2603.4	1000.3	952.9	962.6	859.3	777.9	739.0
10563.2	67.5°	10532.8	10851.3	7717.9	1970.2	820.4	843.5	877.5	783.9	707.4	677.0
10528.0	70°	10571.7	10797.8	7382.5	1349.1	686.7	736.5	782.7	709.8	630.8	608.9
10032.1	72.5°	10054.0	10068.5	6447.8	881.2	581.0	646.6	683.1	634.4	557.9	536.0
8776.6	75°	8696.3	8326.8	4734.1	581.0	486.2	555.4	589.5	555.4	481.3	486.2
6566.9	77.5°	6588.8	5897.2	2874.5	413.2	406.0	466.7	512.9	488.6	425.4	477.7
3302.3	80°	3394.7	3190.5	1282.3	308.7	320.9	373.1	421.8	390.2	336.7	320.9
737.8	82.5°	777.9	904.3	505.6	221.2	232.1	268.6	322.1	292.9	241.9	204.2
307.5	85°	272.3	297.8	223.6	138.6	136.1	167.7	218.8	195.7	164.1	131.3
130.1	87.5°	86.3	113.0	83.9	55.9	58.3	75.4	100.9	92.4	76.6	49.8
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>
2581.6
2652.0
2763.9
2891.5
3008.2
3072.6
3139.4
3189.3
3197.8
3160.1
3019.1
2791.8
2497.7
2191.4
1893.6
1636.0
1442.7
1349.1
1290.8
1193.5
1050.1
1010.0
962.6
920.1
862.9
804.6
737.8
678.2
610.1
534.8
469.2
420.5
292.9
201.8
138.6
52.3
0.0

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