

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: P952154

Luminaire Tested: **GALN-SB6A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952154
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-SB6A-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24770 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

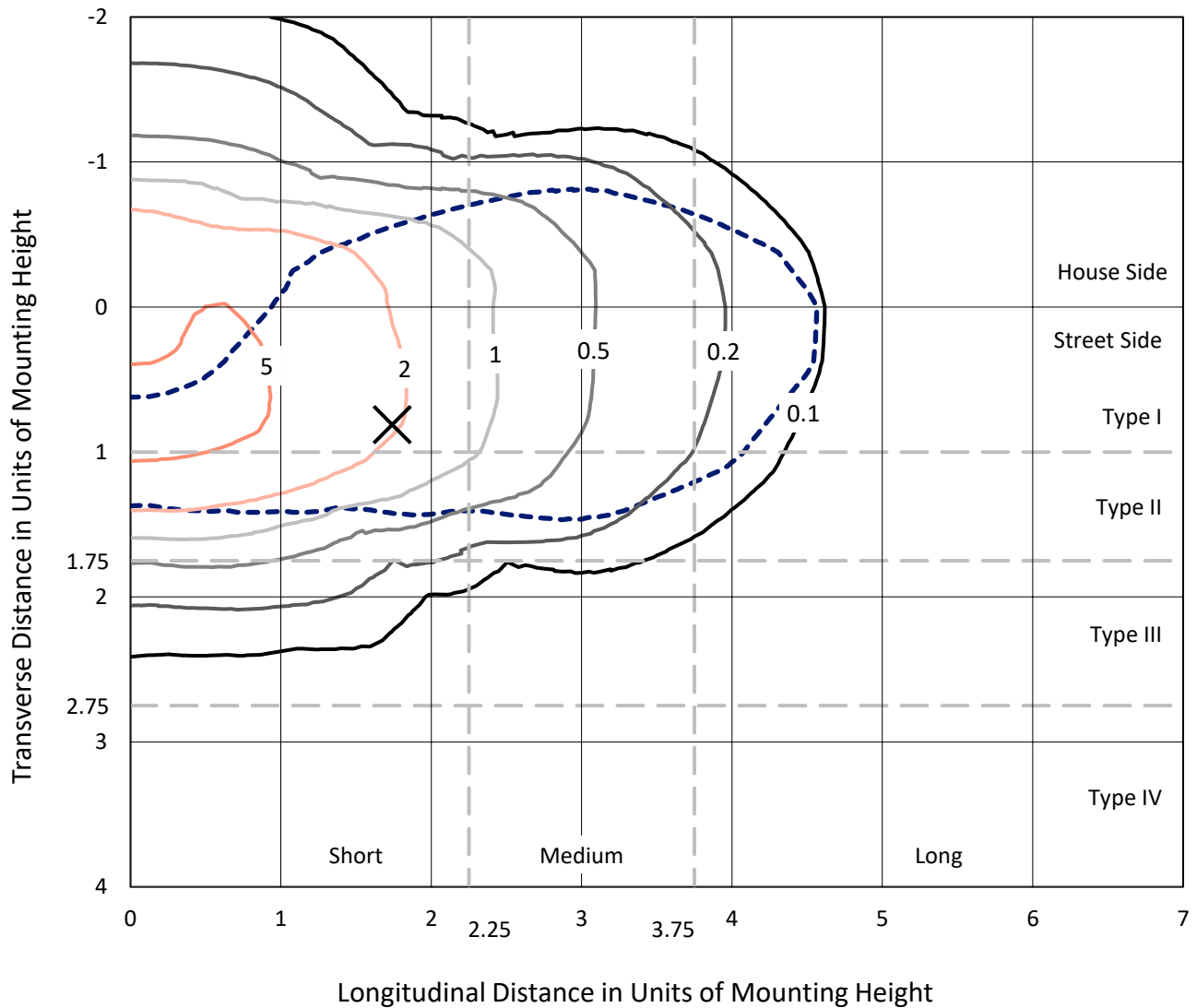
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

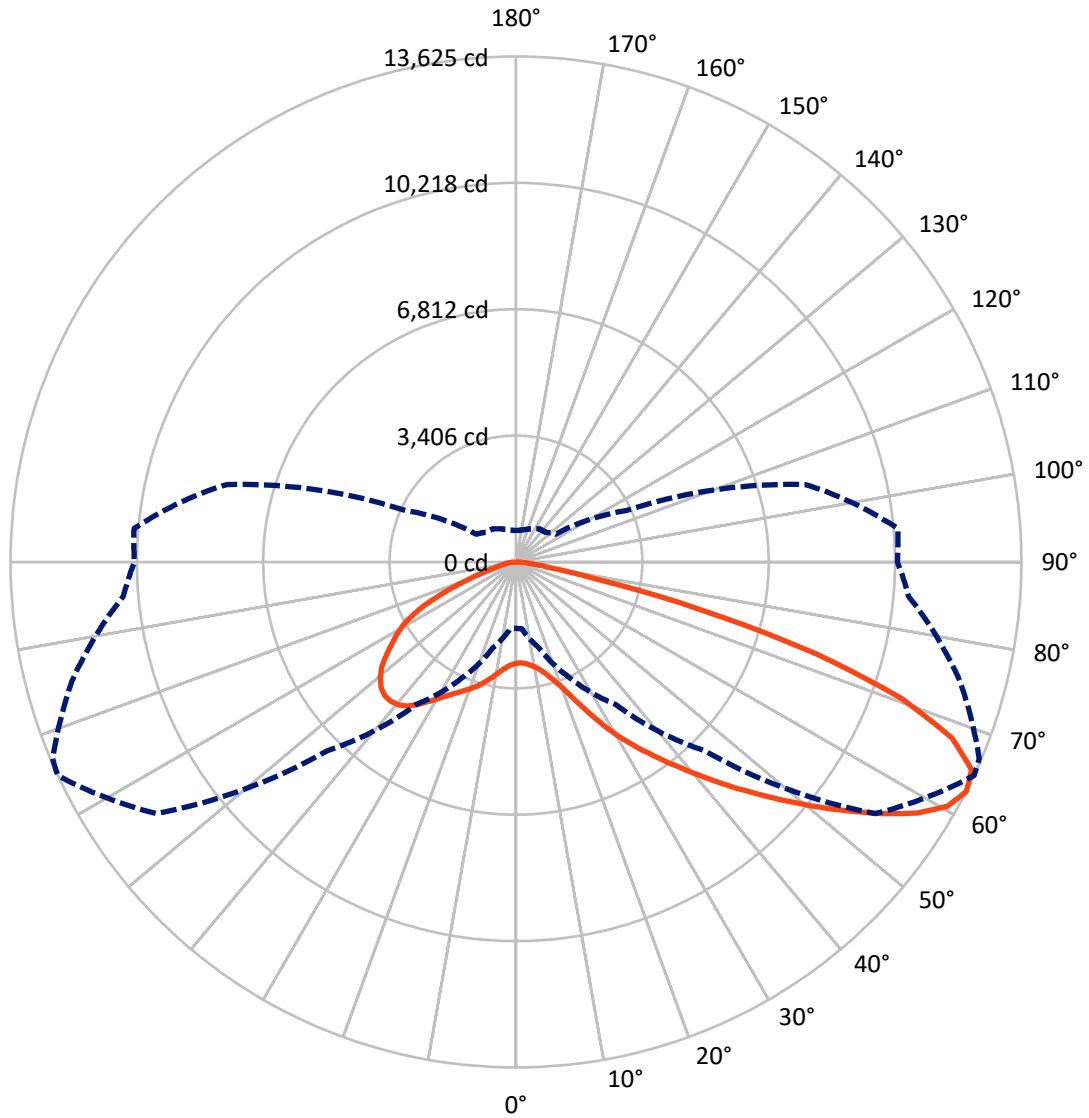
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	7816.3	0.0	7816.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16953.7	0.0	16953.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	24770.0	0.0	24770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	1.1
10°-20°	922.8	3.7
20°-30°	1871.1	7.6
30°-40°	3238.0	13.1
40°-50°	4900.0	19.8
50°-60°	5745.0	23.2
60°-70°	4816.5	19.4
70°-80°	2659.1	10.7
80°-90°	345.4	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°	24770.0	100.0
0°-180°	24770.0	100.0

Coefficient of Utilization

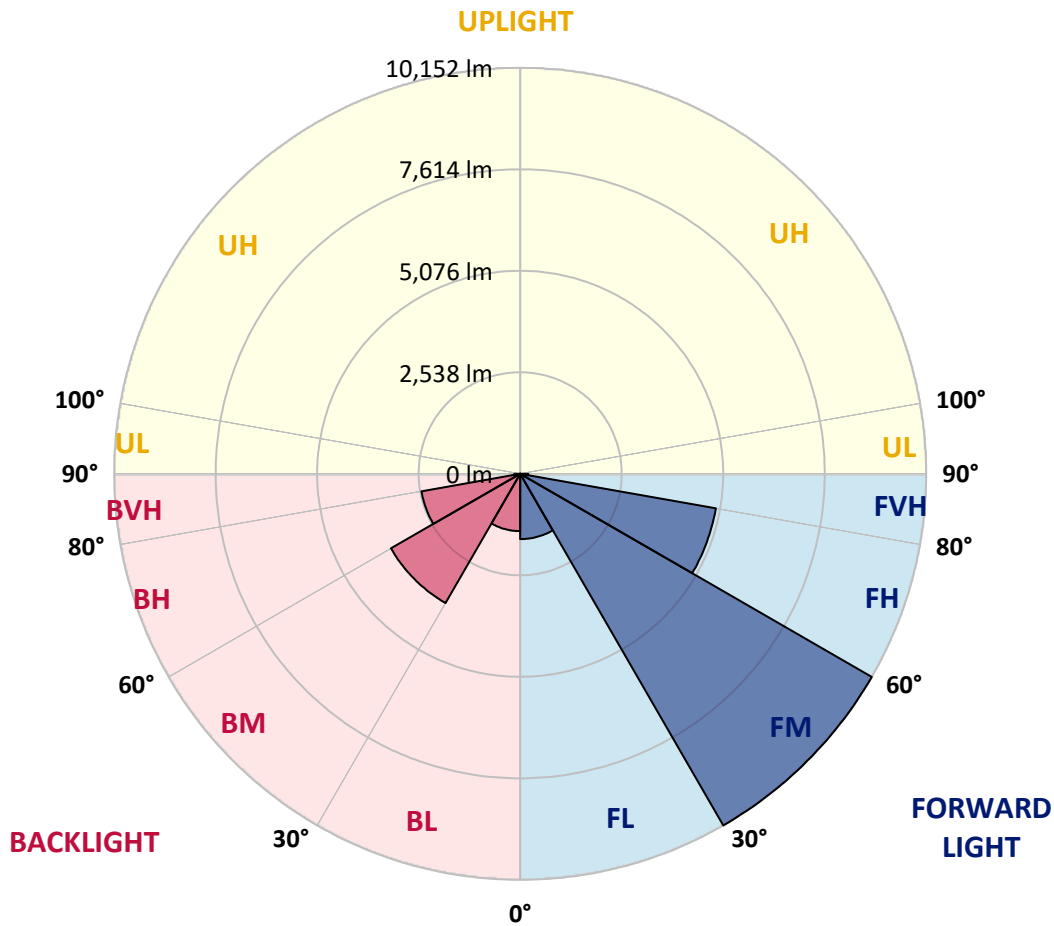


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.7	6.6			
FM (30°-60°)	10151.6	41.0			
FH (60°-80°)	4968.1	20.1			G2/5000
FVH (80°-90°)	201.3	0.8			G2/225
BL (0°-30°)	1433.4	5.8	B3/2500		
BM (30°-60°)	3731.4	15.1	B3/5000		
BH (60°-80°)	2507.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	144.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	2711.6	2703.8	2710.3	2710.3	2712.8	2711.6	2720.6	2723.1	2727.0	2734.7
5°	2684.6	2683.3	2694.8	2705.1	2715.4	2724.4	2736.0	2752.7	2755.2	2764.2
7.5°	2675.6	2667.9	2685.9	2698.7	2723.1	2745.0	2775.8	2804.1	2815.6	2819.5
10°	2745.0	2732.1	2748.8	2756.5	2777.1	2798.9	2834.9	2879.9	2892.8	2908.2
12.5°	2863.2	2849.1	2873.5	2885.0	2904.3	2923.6	2948.0	2991.7	2998.1	3026.4
15°	3025.1	3008.4	3023.8	3038.0	3070.1	3088.1	3112.5	3154.9	3154.9	3176.8
17.5°	3244.9	3223.0	3234.6	3239.7	3260.3	3287.3	3328.4	3365.7	3384.9	3377.2
20°	3572.6	3545.6	3545.6	3519.9	3512.2	3534.0	3588.0	3639.4	3660.0	3620.1
22.5°	4064.8	4026.2	4004.4	3917.0	3882.3	3884.8	3938.8	4001.8	4018.5	3947.8
25°	4690.6	4630.2	4600.6	4472.1	4393.7	4325.6	4368.0	4449.0	4472.1	4384.8
27.5°	5316.4	5320.3	5292.0	5137.8	5008.0	4883.4	4861.5	4946.3	4970.8	4871.8
30°	6194.2	6102.9	6049.0	5863.9	5678.8	5504.1	5414.1	5448.8	5455.2	5337.0
32.5°	6951.1	6928.0	6812.3	6650.4	6412.6	6138.9	5988.6	5933.3	5923.0	5754.7
35°	7813.4	7800.5	7678.5	7485.7	7228.7	6848.3	6577.1	6419.1	6406.2	6169.8
37.5°	8689.8	8689.8	8570.3	8359.6	8093.5	7618.1	7205.5	6954.9	6913.8	6605.4
40°	9388.9	9346.5	9368.4	9279.7	8975.1	8470.1	7903.3	7539.7	7484.4	7114.3
42.5°	9786.0	9771.9	9903.0	10001.9	9877.3	9473.7	8671.8	8173.2	8096.1	7674.6
45°	9874.7	9859.3	10093.2	10455.6	10630.3	10464.5	9507.1	8840.2	8746.4	8260.6
47.5°	9670.4	9639.5	9982.6	10554.5	11114.8	11406.5	10411.9	9563.7	9427.5	8831.2
50°	9056.1	9026.5	9545.7	10305.2	11278.0	12046.5	11393.7	10330.9	10122.7	9442.9
52.5°	7720.9	7735.0	8548.5	9592.0	11063.4	12444.9	12239.3	11139.2	10888.6	10068.7
55°	6014.3	6045.1	7044.9	8193.8	10205.0	12384.5	12816.3	11972.0	11722.7	10657.3
57.5°	4306.4	4442.6	5379.4	6516.7	8556.2	11427.1	12942.2	12763.6	12522.0	11299.9
60°	2791.2	2815.6	3779.5	4925.8	6515.4	9725.6	12686.5	13363.7	13174.8	11955.3
62.5°	1788.9	1805.6	2392.9	3445.3	4689.3	7195.3	11825.5	13624.6	13566.8	12388.3
65°	1314.7	1301.8	1607.7	2277.2	3158.8	4437.4	10153.6	13498.7	13613.0	12659.5
67.5°	1097.5	1079.5	1229.8	1576.8	2327.3	2520.1	7512.7	12680.1	13099.0	12628.7
70°	999.8	984.4	1075.6	1170.7	1815.8	1687.3	3787.2	11023.6	11668.7	12277.8
72.5°	846.9	819.9	944.5	1039.6	1412.3	1294.1	1565.2	8467.5	9254.0	11153.4
75°	656.7	638.7	745.4	915.0	1061.5	1010.1	989.5	5141.7	6000.1	8625.6
77.5°	520.5	496.0	593.7	713.2	954.8	762.1	720.9	2214.2	3065.0	5506.6
80°	392.0	370.1	451.1	564.2	733.8	574.4	466.5	903.4	1155.3	2789.9
82.5°	278.9	259.6	314.8	413.8	493.5	515.3	286.6	506.3	569.3	1075.6
85°	178.6	167.1	210.8	259.6	313.6	331.6	174.8	264.7	290.4	443.4
87.5°	97.7	79.7	113.1	120.8	145.2	132.4	83.5	96.4	104.1	160.6
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°
2729.5	0°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2734.7	2.5°	2739.8	2743.7	2756.5	2760.4	2769.4	2781.0	2788.7	2796.4	2796.4	2804.1
2775.8	5°	2777.1	2786.1	2813.1	2827.2	2850.3	2873.5	2887.6	2904.3	2914.6	2919.7
2841.4	7.5°	2849.1	2863.2	2901.7	2926.2	2966.0	2998.1	3020.0	3043.1	3048.3	3062.4
2932.6	10°	2946.7	2963.4	3007.1	3053.4	3100.9	3140.8	3161.3	3178.0	3184.5	3187.0
3049.5	12.5°	3058.5	3082.9	3139.5	3196.0	3246.2	3280.9	3286.0	3282.1	3264.1	3248.7
3193.5	15°	3196.0	3217.9	3280.9	3342.5	3391.4	3397.8	3365.7	3345.1	3323.3	3319.4
3354.1	17.5°	3360.5	3372.1	3429.9	3490.3	3494.2	3472.3	3424.8	3405.5	3384.9	3370.8
3563.6	20°	3552.0	3548.2	3589.3	3615.0	3588.0	3521.2	3449.2	3417.1	3396.5	3379.8
3820.6	22.5°	3780.8	3751.2	3746.1	3739.6	3667.7	3527.6	3429.9	3388.8	3356.7	3333.5
4179.1	25°	4113.6	4000.5	3922.1	3878.4	3716.5	3492.9	3368.2	3277.0	3216.6	3176.8
4617.4	27.5°	4530.0	4339.8	4141.9	4035.2	3716.5	3422.2	3219.2	3071.4	2972.4	2931.3
5041.4	30°	4927.1	4727.9	4436.2	4224.1	3707.5	3306.6	2978.9	2773.2	2657.6	2616.5
5403.8	32.5°	5266.3	5049.1	4748.4	4431.0	3685.7	3118.9	2680.7	2453.3	2341.4	2292.6
5762.4	35°	5581.2	5349.9	5062.0	4658.5	3627.8	2843.9	2353.0	2179.5	2054.9	1976.5
6127.3	37.5°	5903.7	5628.7	5358.9	4864.1	3523.7	2522.6	2101.1	1953.3	1806.8	1701.5
6515.4	40°	6254.6	5925.6	5676.3	4986.2	3352.8	2216.8	1905.8	1770.9	1615.4	1503.6
6962.7	42.5°	6664.5	6281.6	6029.7	5049.1	3118.9	1999.6	1778.6	1646.2	1499.7	1408.5
7442.0	45°	7092.5	6673.5	6352.2	5047.9	2858.1	1898.1	1737.5	1606.4	1444.4	1349.4
7934.2	47.5°	7541.0	7083.5	6631.1	4965.6	2631.9	1912.2	1714.3	1520.3	1341.6	1249.1
8431.5	50°	7990.7	7532.0	6901.0	4811.4	2535.5	1881.4	1628.2	1399.5	1188.7	1105.2
8898.0	52.5°	8436.7	8008.7	7133.6	4591.7	2437.8	1767.0	1517.7	1242.7	1125.7	1067.9
9379.9	55°	8885.2	8480.4	7386.7	4271.7	2193.7	1633.4	1332.6	1183.6	1075.6	1022.9
9851.6	57.5°	9334.9	9025.2	7627.1	3951.7	1886.5	1468.9	1231.1	1111.6	1025.5	980.5
10246.1	60°	9802.7	9648.5	7875.1	3657.4	1583.2	1258.1	1156.6	1053.8	966.4	916.3
10625.2	62.5°	10284.6	10334.8	8069.1	3278.3	1304.4	1129.6	1089.8	984.4	899.6	852.0
10938.7	65°	10770.4	10996.6	8196.4	2752.7	1057.6	1007.5	1017.8	908.6	822.5	781.3
11168.8	67.5°	11136.7	11473.3	8160.4	2083.1	867.4	891.9	927.8	828.9	747.9	715.8
11131.5	70°	11177.8	11416.8	7805.7	1426.5	726.1	778.8	827.6	750.5	667.0	643.8
10607.2	72.5°	10630.3	10645.7	6817.4	931.7	614.3	683.7	722.2	670.8	589.9	566.7
9279.7	75°	9194.9	8804.2	5005.5	614.3	514.0	587.3	623.3	587.3	508.9	514.0
6943.4	77.5°	6966.5	6235.3	3039.3	436.9	429.2	493.5	542.3	516.6	449.8	505.0
3491.6	80°	3589.3	3373.4	1355.8	326.4	339.3	394.5	445.9	412.5	356.0	339.3
780.1	82.5°	822.5	956.1	534.6	233.9	245.5	284.0	340.6	309.7	255.7	215.9
325.1	85°	287.9	314.8	236.5	146.5	143.9	177.3	231.3	206.9	173.5	138.8
137.5	87.5°	91.2	119.5	88.7	59.1	61.7	79.7	106.7	97.7	81.0	52.7
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>
2729.5
2804.1
2922.3
3057.2
3180.6
3248.7
3319.4
3372.1
3381.1
3341.3
3192.2
2951.9
2640.9
2317.0
2002.2
1729.7
1525.4
1426.5
1364.8
1262.0
1110.3
1067.9
1017.8
972.8
912.4
850.7
780.1
717.1
645.1
565.4
496.0
444.6
309.7
213.3
146.5
55.3
0.0

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