

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: P942227

Luminaire Tested: **GALN-SB6A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26037 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

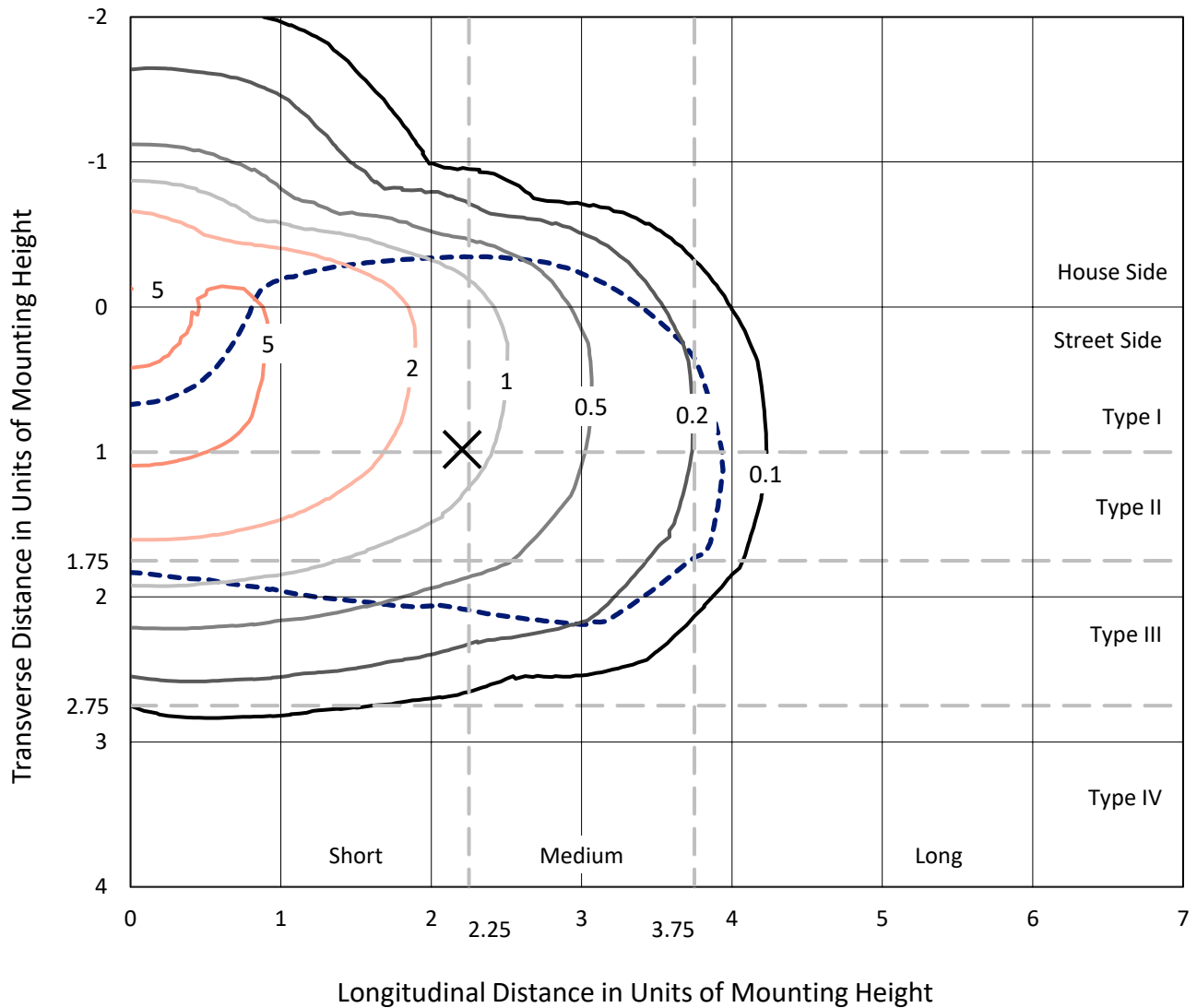
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

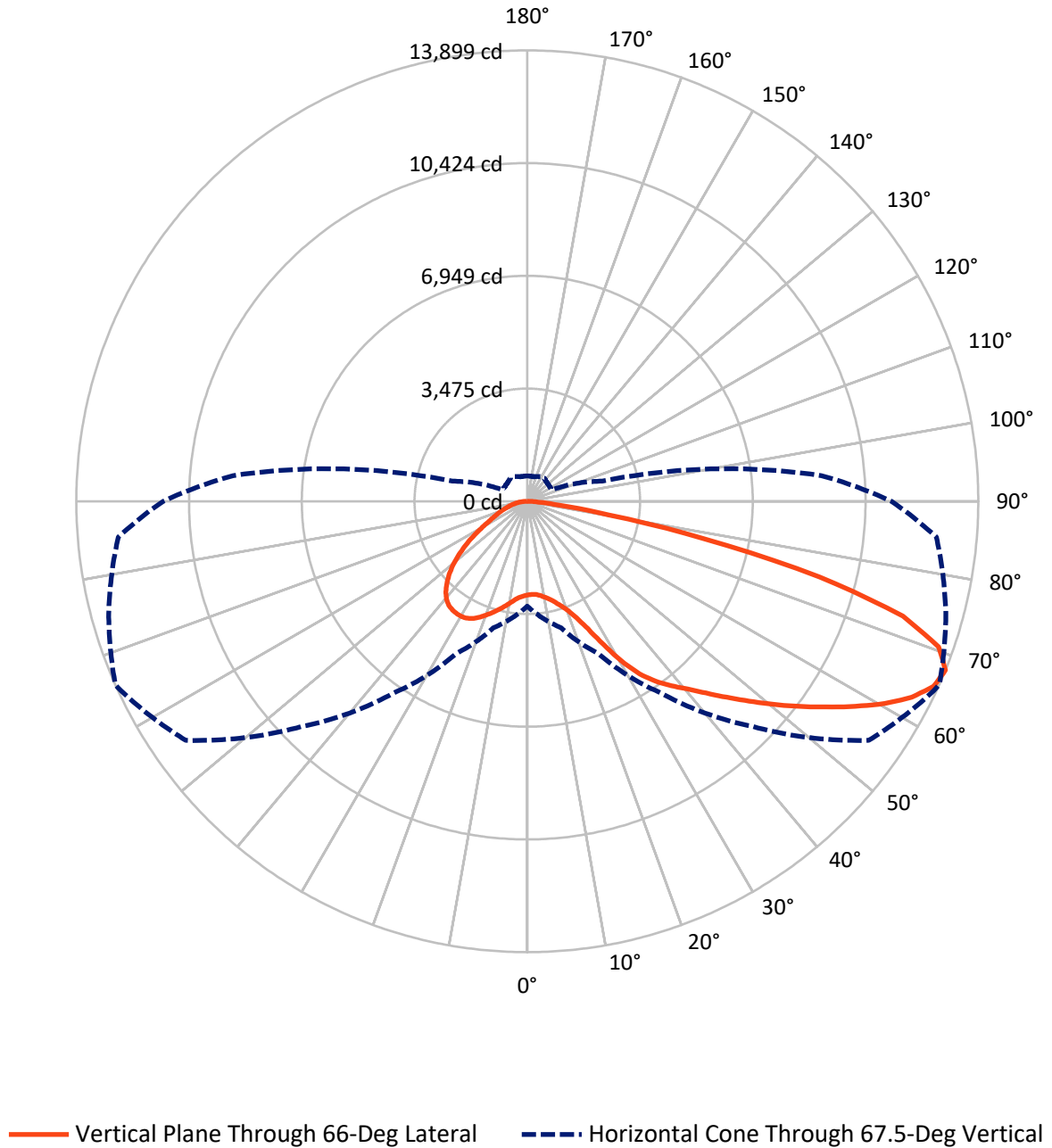
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6474.0	0.0	6474.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19563.0	0.0	19563.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	26037.0	0.0	26037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	1.1
10°-20°	946.0	3.6
20°-30°	1823.3	7.0
30°-40°	3196.9	12.3
40°-50°	4752.7	18.3
50°-60°	6024.5	23.1
60°-70°	5894.9	22.6
70°-80°	2811.9	10.8
80°-90°	300.5	1.2
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°	26037.0	100.0
0°-180°	26037.0	100.0

Coefficient of Utilization



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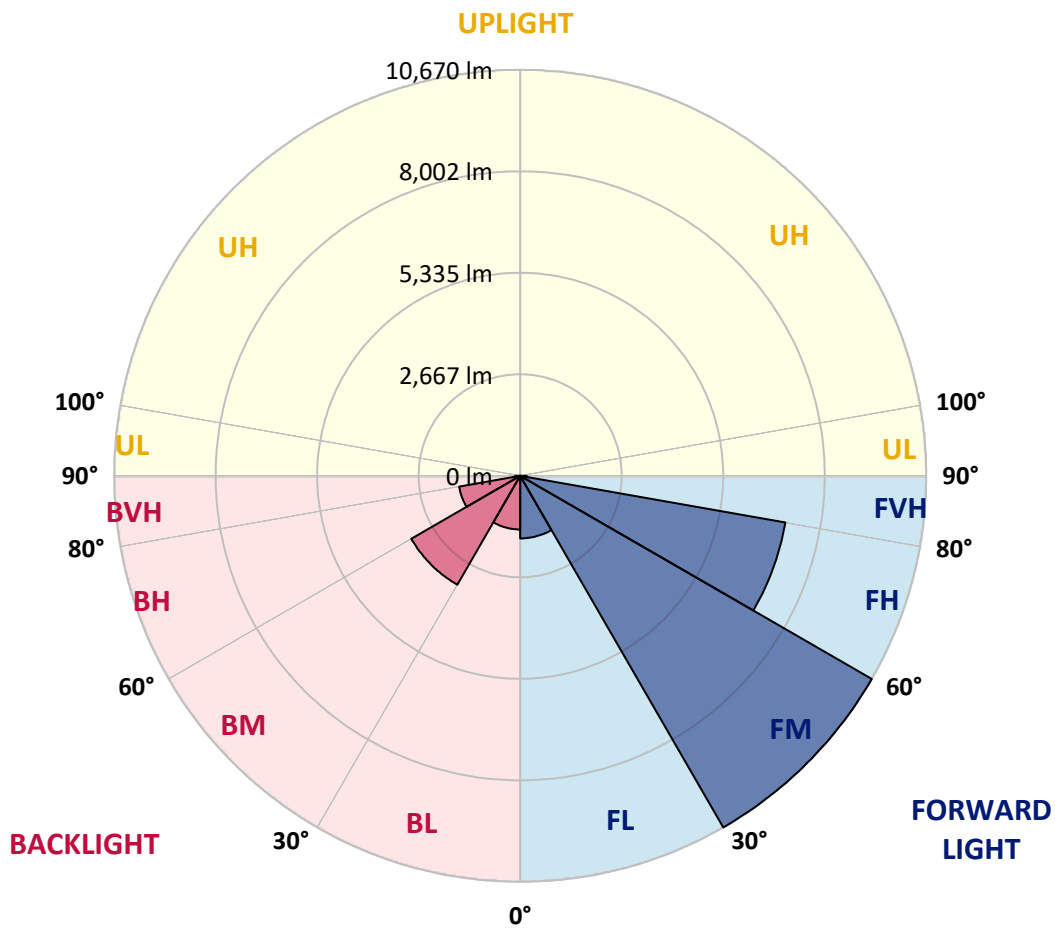
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.3	6.3			
FM (30°-60°)	10669.7	41.0			
FH (60°-80°)	7077.6	27.2			G3/7500
FVH (80°-90°)	170.4	0.7			G2/225
BL (0°-30°)	1410.3	5.4	B3/2500		
BM (30°-60°)	3304.4	12.7	B3/5000		
BH (60°-80°)	1629.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	130.1	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2.5°	2857.8	2874.2	2870.1	2863.2	2861.9	2864.6	2868.7	2872.8	2871.4	2878.3
5°	2849.5	2866.0	2864.6	2864.6	2870.1	2881.0	2887.8	2894.7	2887.8	2896.1
7.5°	2855.0	2867.3	2872.8	2878.3	2892.0	2912.5	2928.9	2943.9	2935.7	2945.3
10°	2924.8	2934.4	2939.8	2939.8	2949.4	2972.7	2989.1	3016.4	3009.6	3024.6
12.5°	3052.0	3061.6	3061.6	3056.1	3063.0	3078.0	3083.5	3113.6	3101.3	3125.9
15°	3208.0	3227.1	3212.1	3202.5	3205.2	3220.3	3218.9	3242.2	3229.8	3250.4
17.5°	3380.3	3405.0	3380.3	3379.0	3373.5	3389.9	3391.3	3411.8	3389.9	3405.0
20°	3584.2	3618.4	3597.8	3604.7	3592.4	3599.2	3606.0	3636.1	3601.9	3612.9
22.5°	3871.4	3912.5	3890.6	3916.6	3908.4	3902.9	3901.5	3954.9	3901.5	3905.6
25°	4290.0	4339.3	4301.0	4336.6	4336.6	4354.3	4374.9	4443.3	4354.3	4328.4
27.5°	4908.4	4957.6	4882.4	4904.3	4897.4	4941.2	4919.3	5089.0	4993.2	4950.8
30°	5652.6	5740.1	5597.9	5592.4	5585.5	5655.3	5686.8	5799.0	5701.8	5659.4
32.5°	6457.0	6548.6	6379.0	6329.7	6303.7	6346.2	6320.2	6410.4	6343.4	6277.8
35°	7307.9	7398.1	7236.7	7141.0	7037.0	6948.1	6855.0	6878.3	6815.4	6715.5
37.5°	8112.2	8277.8	8106.8	8004.2	7812.6	7638.9	7379.0	7270.9	7212.1	7120.4
40°	8931.7	9026.1	8896.1	8808.6	8600.6	8328.4	7912.5	7684.1	7604.7	7515.8
42.5°	9535.0	9625.2	9555.5	9495.3	9332.5	9016.5	8478.9	8193.0	8078.0	7978.2
45°	10013.8	10080.8	10037.0	10058.9	9989.1	9682.7	9065.7	8738.8	8619.8	8498.0
47.5°	10206.6	10277.8	10347.5	10477.5	10596.5	10370.8	9696.4	9329.8	9203.9	9079.4
50°	10184.8	10257.3	10459.7	10736.1	11105.4	11030.2	10361.2	9959.0	9842.8	9700.5
52.5°	10009.7	10091.7	10351.7	10811.3	11399.5	11524.0	11038.4	10608.8	10499.4	10329.8
55°	9550.0	9599.3	9989.1	10640.3	11469.3	11868.8	11701.9	11301.0	11191.6	10954.9
57.5°	8697.7	8768.9	9336.6	10179.3	11294.2	12102.7	12284.6	12028.8	11923.5	11582.9
60°	7585.6	7699.1	8348.9	9405.0	10848.2	12101.3	12814.1	12744.3	12656.7	12201.2
62.5°	6327.0	6458.3	7083.5	8310.6	10068.5	11758.0	13145.1	13343.5	13298.3	12771.6
65°	4859.1	4949.4	5571.9	6894.7	8855.1	11020.6	13183.4	13752.5	13760.7	13205.3
67.5°	3235.3	3495.2	4035.6	5173.8	7229.9	9815.4	12846.9	13819.5	13898.9	13354.4
70°	1578.7	1920.7	2450.1	3362.5	5173.8	7967.2	11967.3	13269.6	13446.1	12919.4
72.5°	655.3	766.1	1054.7	1659.4	2969.9	5376.2	10199.8	11778.5	12105.4	11447.4
75°	441.9	478.8	603.3	850.9	1353.0	2651.2	7355.7	8782.6	9309.2	8645.8
77.5°	340.6	363.9	439.1	595.1	804.4	1002.7	3937.1	5292.8	5565.0	5151.9
80°	268.1	285.9	328.3	433.7	570.5	536.3	1342.0	2398.1	2555.4	2143.7
82.5°	232.6	239.4	235.3	294.1	378.9	313.3	440.5	885.1	976.8	708.6
85°	168.3	187.4	195.6	181.9	201.1	158.7	180.6	313.3	344.7	307.8
87.5°	68.4	101.2	124.5	117.6	73.9	45.1	56.1	91.7	105.3	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°
2887.8	0°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2889.2	2.5°	2890.6	2900.2	2907.0	2915.2	2920.7	2928.9	2945.3	2954.9	2956.2	2963.1
2911.1	5°	2916.6	2930.3	2945.3	2967.2	2991.8	3012.3	3043.8	3065.7	3073.9	3080.7
2964.5	7.5°	2972.7	2991.8	3019.2	3057.5	3093.0	3120.4	3158.7	3184.7	3210.7	3220.3
3049.3	10°	3056.1	3083.5	3123.1	3175.1	3213.4	3249.0	3288.7	3310.6	3336.6	3347.5
3150.5	12.5°	3160.1	3188.8	3240.8	3313.3	3348.9	3373.5	3387.2	3381.7	3387.2	3396.7
3272.3	15°	3279.1	3310.6	3369.4	3447.4	3472.0	3450.1	3420.0	3392.6	3388.5	3391.3
3420.0	17.5°	3420.0	3443.3	3511.7	3577.3	3559.5	3469.2	3403.6	3359.8	3337.9	3331.1
3608.8	20°	3617.0	3617.0	3673.1	3714.1	3595.1	3441.9	3339.3	3268.2	3223.0	3203.9
3866.0	22.5°	3856.4	3834.5	3870.1	3841.3	3588.3	3365.3	3223.0	3099.9	3031.5	3004.1
4225.8	25°	4160.1	4134.1	4124.5	3946.7	3539.0	3243.5	3012.3	2863.2	2803.0	2788.0
4744.2	27.5°	4618.4	4552.7	4428.2	4004.1	3448.7	3052.0	2766.1	2627.9	2593.7	2595.1
5410.4	30°	5228.5	5097.2	4792.1	4013.7	3301.0	2781.1	2514.4	2415.9	2399.5	2406.3
5970.0	32.5°	5793.5	5669.0	5164.2	3969.9	3073.9	2515.8	2288.7	2223.0	2198.4	2206.6
6396.8	35°	6236.7	6202.5	5508.9	3908.4	2794.8	2266.8	2086.2	2030.1	1982.2	1971.3
6799.0	37.5°	6655.3	6641.6	5767.5	3822.2	2518.5	2090.3	1923.4	1849.5	1779.8	1741.5
7243.6	40°	7115.0	7101.3	5937.1	3689.5	2273.6	1937.1	1777.0	1679.9	1593.7	1524.0
7747.0	42.5°	7632.1	7551.4	6017.8	3499.3	2065.7	1807.1	1658.0	1526.7	1413.1	1348.8
8316.1	45°	8197.1	8015.1	6016.5	3257.2	1890.6	1688.1	1530.8	1344.7	1239.4	1179.2
8900.2	47.5°	8796.2	8458.3	5942.6	2989.1	1720.9	1556.8	1333.8	1191.5	1121.8	1084.8
9535.0	50°	9414.6	8872.8	5816.7	2681.3	1547.2	1407.7	1210.7	1113.6	1060.2	1026.0
10164.2	52.5°	9996.0	9249.0	5664.9	2332.4	1370.7	1262.7	1156.0	1080.7	1024.6	986.3
10774.4	55°	10536.3	9573.3	5450.1	1975.4	1227.1	1165.5	1130.0	1067.0	1002.7	957.6
11394.1	57.5°	11016.5	9783.9	5079.4	1640.2	1124.5	1098.5	1102.6	1043.8	969.9	931.6
12004.2	60°	11416.0	9938.5	4530.8	1329.7	1041.0	1032.8	1060.2	1000.0	913.8	870.0
12519.9	62.5°	11655.4	9935.8	3857.8	1088.9	969.9	972.6	1004.1	945.3	857.7	816.7
12789.4	65°	11634.8	9692.3	3119.0	931.6	901.5	904.2	945.3	885.1	811.2	786.6
12654.0	67.5°	11223.1	9098.6	2392.6	829.0	826.3	838.6	886.5	844.1	782.5	779.8
11846.9	70°	10108.1	7866.0	1723.7	746.9	748.3	766.1	829.0	818.1	767.4	772.9
9960.4	72.5°	8105.4	5997.3	1157.3	660.7	662.1	690.8	774.3	797.5	752.4	824.9
7067.1	75°	5398.1	3740.1	744.2	569.1	570.5	607.4	726.4	757.9	711.4	822.2
3677.2	77.5°	2593.7	1681.3	539.0	478.8	478.8	513.0	627.9	678.5	606.0	638.9
1182.0	80°	896.0	632.0	424.1	385.8	377.6	400.8	529.4	588.2	522.6	481.5
385.8	82.5°	352.9	328.3	340.6	299.6	272.2	287.3	411.8	485.6	384.4	347.5
217.5	85°	202.5	213.4	240.8	198.4	157.3	176.5	302.3	348.8	290.0	255.8
71.1	87.5°	54.7	75.2	110.8	102.6	71.1	75.2	143.6	192.9	166.9	128.6
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>
2887.8
2961.7
3079.4
3221.6
3353.0
3399.5
3400.8
3340.7
3199.8
3000.0
2790.7
2599.2
2429.6
2217.5
1979.5
1742.8
1530.8
1353.0
1176.5
1076.6
1013.7
969.9
939.8
907.0
850.9
804.4
785.2
783.9
771.6
835.8
829.0
585.5
451.4
346.1
261.3
132.7
0.0

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