

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: P942229

Luminaire Tested: **GALN-SB6A-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942229
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-SB6A-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25717 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

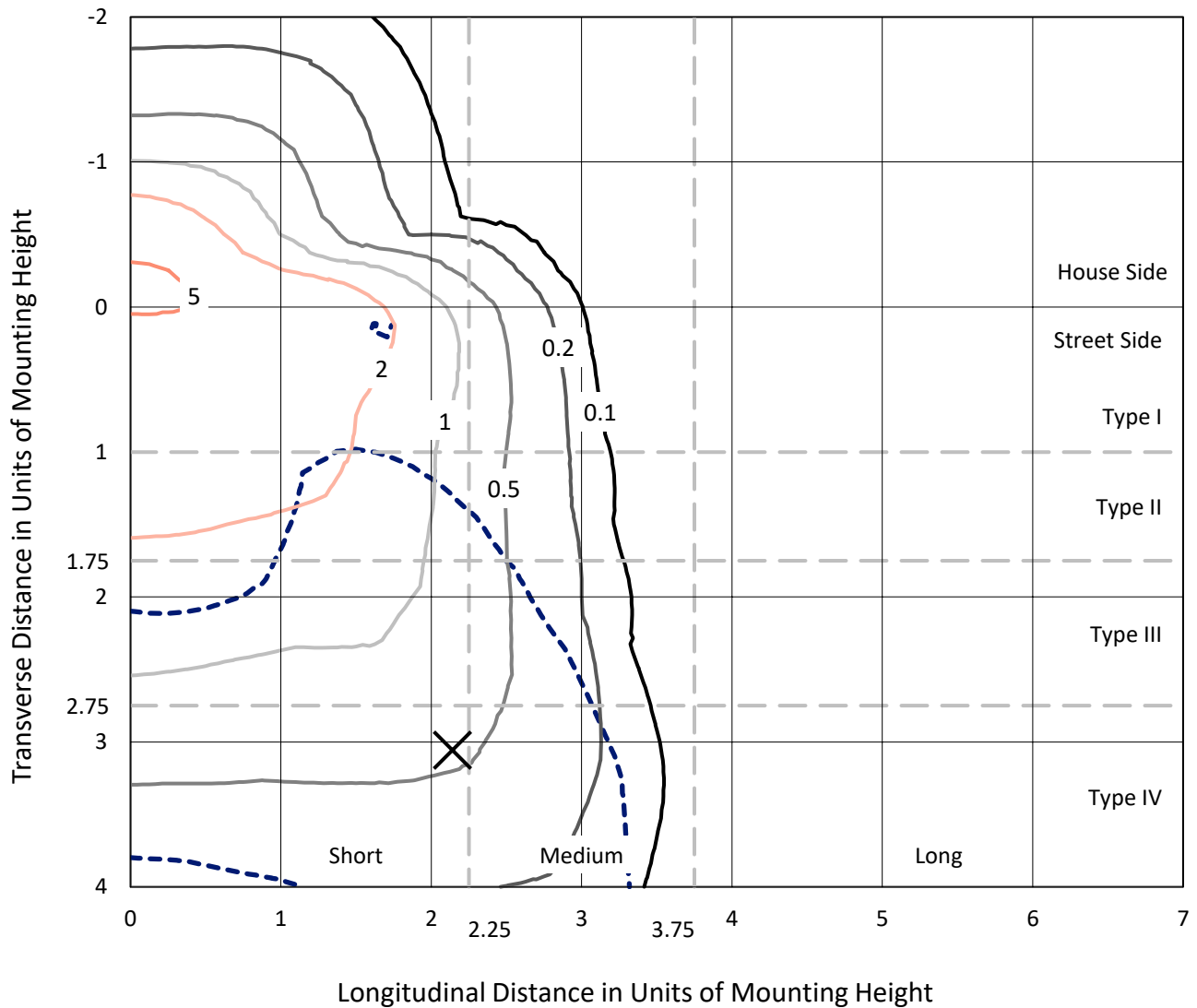
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

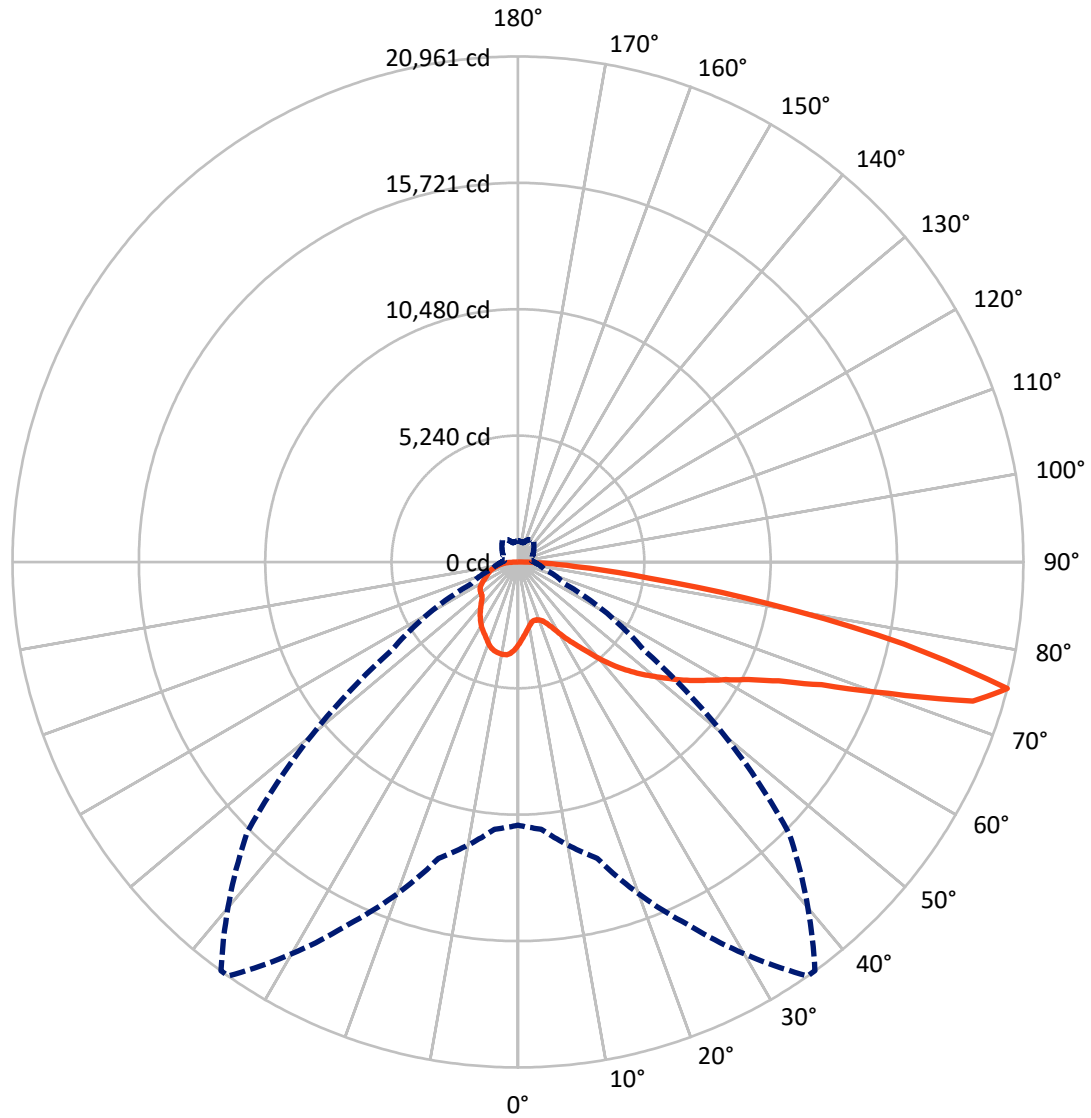
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6120.0	0.0	6120.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19597.0	0.0	19597.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	25717.0	0.0	25717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.3
10°-20°	935.9	3.6
20°-30°	1571.6	6.1
30°-40°	2442.5	9.5
40°-50°	3625.3	14.1
50°-60°	5005.0	19.5
60°-70°	6072.2	23.6
70°-80°	5018.2	19.5
80°-90°	721.8	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°	25717.0	100.0
0°-180°	25717.0	100.0

Coefficient of Utilization



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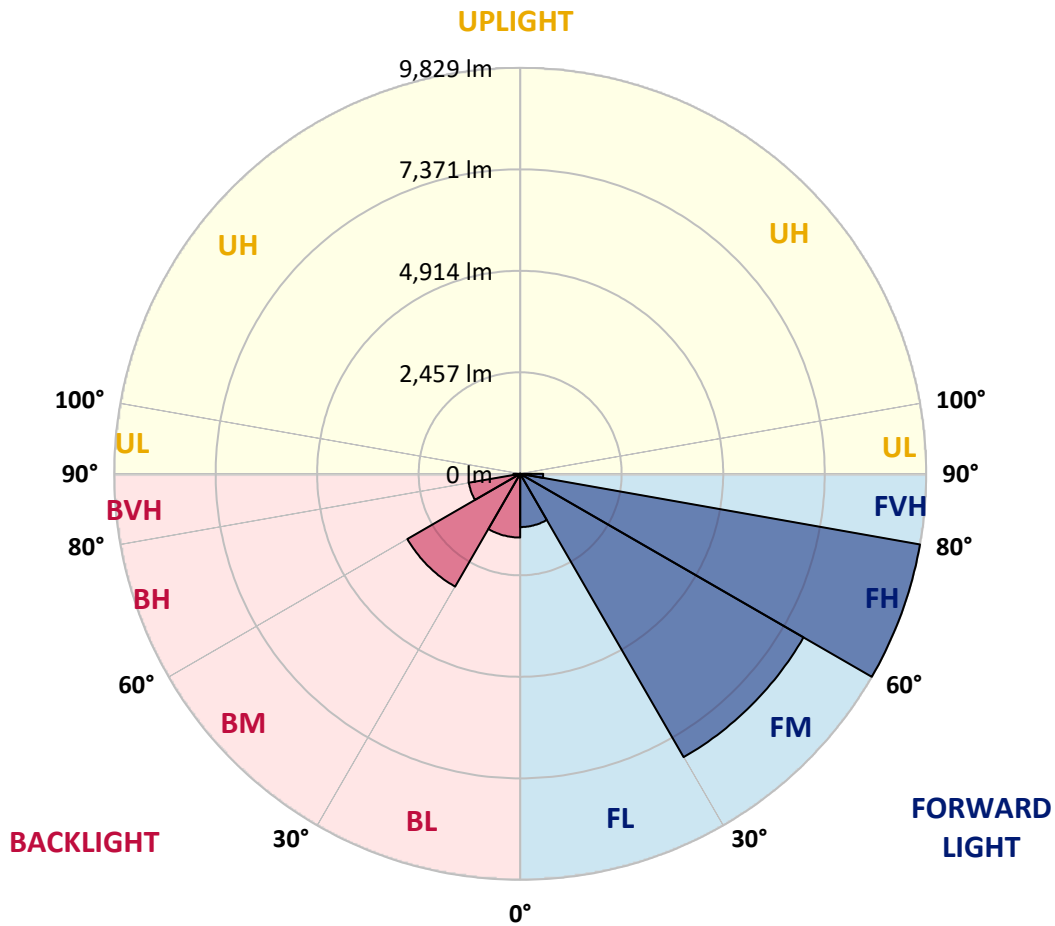
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.7	5.0			
FM (30°-60°)	7919.4	30.8			
FH (60°-80°)	9828.7	38.2			G4/12000
FVH (80°-90°)	559.2	2.2			G4/750
BL (0°-30°)	1542.3	6.0	B3/2500		
BM (30°-60°)	3153.4	12.3	B3/5000		
BH (60°-80°)	1261.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	162.5	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°	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0
2.5°	3160.0	3179.5	3187.8	3183.7	3204.5	3201.7	3230.9	3267.1	3317.1	3365.8
5°	2916.7	2937.6	2955.7	2972.4	3012.7	3025.2	3071.1	3140.6	3232.3	3325.5
7.5°	2690.1	2708.2	2736.0	2766.6	2834.7	2847.2	2923.7	3032.1	3160.0	3296.3
10°	2505.2	2523.3	2552.5	2587.3	2672.1	2687.4	2784.7	2929.3	3096.1	3268.5
12.5°	2426.0	2431.5	2448.2	2483.0	2556.7	2566.4	2673.4	2838.9	3033.5	3247.6
15°	2421.8	2432.9	2434.3	2452.4	2513.6	2517.7	2616.4	2780.5	2994.6	3243.5
17.5°	2463.5	2471.9	2459.4	2470.5	2521.9	2528.9	2606.7	2752.7	2982.1	3261.5
20°	2574.7	2581.7	2544.2	2528.9	2566.4	2572.0	2648.4	2770.8	2994.6	3299.1
22.5°	2811.1	2815.3	2723.5	2660.9	2663.7	2666.5	2733.2	2844.4	3043.3	3367.2
25°	3179.5	3176.7	3030.7	2909.8	2840.3	2825.0	2869.5	2964.0	3125.3	3457.5
27.5°	3610.5	3589.6	3443.6	3262.9	3111.4	3089.1	3079.4	3119.7	3242.1	3577.1
30°	4097.1	4077.6	3920.5	3684.2	3474.2	3438.1	3346.3	3325.5	3415.8	3739.8
32.5°	4630.9	4618.4	4430.7	4144.3	3863.5	3821.8	3667.5	3611.9	3682.8	3985.8
35°	5078.6	5067.5	4911.8	4617.0	4273.6	4222.2	4065.1	4002.5	4038.7	4301.4
37.5°	5483.1	5477.6	5344.1	5111.9	4757.4	4694.9	4518.3	4497.5	4490.5	4717.1
40°	5858.5	5844.6	5705.6	5583.2	5320.5	5263.5	5107.8	5089.7	5036.9	5228.7
42.5°	6274.2	6238.0	6036.5	5979.5	5908.6	5861.3	5768.1	5770.9	5654.1	5805.7
45°	6613.4	6592.6	6385.4	6352.0	6428.5	6409.0	6489.7	6510.5	6283.9	6410.4
47.5°	6977.7	6958.2	6783.0	6759.4	6966.5	6972.1	7257.1	7264.1	6898.4	7038.8
50°	7426.7	7398.9	7225.1	7254.3	7486.5	7507.3	8028.7	7981.4	7464.2	7677.0
52.5°	7722.8	7739.5	7702.0	7749.2	8066.2	8085.7	8787.8	8666.8	8024.5	8306.7
55°	7941.1	7974.5	8091.3	8199.7	8677.9	8697.4	9503.7	9318.8	8488.9	8890.6
57.5°	8221.9	8174.7	8392.9	8604.3	9259.1	9310.5	10200.3	9947.2	8900.4	9393.9
60°	8625.1	8591.7	8761.4	9074.2	9909.7	9991.7	10937.1	10513.1	9202.1	9792.9
62.5°	9442.6	9359.2	9385.6	9662.2	10729.9	10838.4	11768.5	11006.6	9352.2	9948.6
65°	10664.6	10521.4	10387.9	10579.8	11885.2	11992.3	12706.9	11394.5	9296.6	9646.9
67.5°	12203.6	12061.8	11897.8	12078.5	13586.9	13671.7	13865.0	11612.8	8858.7	8484.7
70°	13472.9	13420.1	13616.1	14359.9	16304.8	16307.6	15349.7	11432.0	7658.9	6015.6
72.5°	13304.7	13272.7	14305.7	16605.1	19730.4	19656.7	16755.3	10064.0	5159.2	2713.8
75°	10914.8	11122.0	12722.2	16564.8	20960.8	20951.1	15894.7	6397.9	2134.0	1124.7
77.5°	5852.9	6181.0	8259.5	12230.0	16363.2	16609.3	11174.8	2238.3	916.2	720.1
80°	1908.8	2195.2	3292.1	6226.9	10632.6	10586.7	4789.4	878.6	627.0	510.2
82.5°	810.5	843.9	1470.9	2940.4	5456.7	5371.9	1525.1	504.7	440.7	349.0
85°	317.0	354.5	649.2	1359.7	2363.4	2312.0	550.5	250.2	282.2	228.0
87.5°	104.3	126.5	232.2	465.7	735.4	709.0	134.9	86.2	122.3	104.3
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°
3427.0	0°	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0
3436.7	2.5°	3456.2	3478.4	3504.8	3543.7	3577.1	3604.9	3634.1	3652.2	3659.1	3680.0
3442.3	5°	3481.2	3529.8	3595.2	3659.1	3721.7	3759.2	3792.6	3809.3	3824.6	3835.7
3457.5	7.5°	3522.9	3585.5	3688.3	3771.7	3824.6	3855.2	3877.4	3871.8	3877.4	3880.2
3474.2	10°	3559.0	3646.6	3769.0	3848.2	3888.5	3889.9	3884.4	3864.9	3855.2	3856.6
3499.3	12.5°	3602.1	3699.5	3831.5	3898.3	3909.4	3878.8	3855.2	3821.8	3809.3	3803.7
3536.8	15°	3660.5	3771.7	3899.6	3924.7	3896.9	3857.9	3817.6	3763.4	3735.6	3713.4
3600.7	17.5°	3731.4	3853.8	3952.5	3934.4	3874.6	3810.7	3745.3	3663.3	3606.3	3582.7
3688.3	20°	3830.1	3940.0	3992.8	3913.6	3823.2	3725.9	3614.6	3514.5	3461.7	3438.1
3799.6	22.5°	3949.7	4055.4	4031.7	3877.4	3749.5	3593.8	3454.8	3381.1	3354.7	3338.0
3942.7	25°	4092.9	4183.3	4059.5	3824.6	3628.6	3418.6	3311.6	3287.9	3275.4	3262.9
4117.9	27.5°	4279.2	4327.8	4080.4	3746.7	3439.5	3232.3	3193.4	3197.6	3193.4	3172.5
4361.2	30°	4525.3	4515.5	4099.8	3620.2	3222.6	3064.1	3066.9	3085.0	3087.7	3073.8
4700.4	32.5°	4849.2	4750.5	4109.6	3456.2	3015.5	2916.7	2919.5	2939.0	2952.9	2929.3
5143.9	35°	5241.2	5024.4	4094.3	3250.4	2855.6	2776.3	2755.5	2761.0	2765.2	2743.0
5681.9	37.5°	5698.6	5331.6	4026.2	3022.4	2723.5	2638.7	2594.2	2556.7	2534.4	2513.6
6290.9	40°	6200.5	5666.7	3901.0	2800.0	2576.1	2492.7	2426.0	2355.1	2280.0	2252.2
6936.0	42.5°	6726.0	6011.4	3749.5	2587.3	2406.5	2338.4	2267.5	2164.6	2052.0	1995.0
7606.1	45°	7271.0	6364.6	3600.7	2377.3	2232.7	2203.5	2121.5	1997.8	1875.4	1803.2
8277.5	47.5°	7804.9	6698.2	3382.5	2166.0	2070.1	2102.1	2038.1	1924.1	1787.9	1673.9
8943.5	50°	8315.1	7011.0	3025.2	1951.9	1938.0	2071.5	2010.3	1846.3	1690.5	1544.6
9596.9	52.5°	8821.1	7264.1	2567.8	1757.3	1867.1	2063.1	1974.2	1793.4	1603.0	1450.0
10211.4	55°	9250.7	7394.7	2127.1	1590.4	1764.2	1992.2	1931.1	1730.9	1479.2	1316.6
10632.6	57.5°	9495.4	7289.1	1760.1	1426.4	1622.4	1875.4	1857.4	1597.4	1331.9	1206.7
10714.7	60°	9389.7	6860.9	1459.8	1283.2	1487.6	1748.9	1729.5	1465.3	1219.2	1101.1
10275.3	62.5°	8807.2	6044.8	1222.0	1158.1	1365.2	1619.6	1601.6	1363.8	1133.1	1019.1
9108.9	65°	7633.9	4917.3	1037.1	1053.8	1241.5	1463.9	1490.3	1279.0	1064.9	953.7
7047.2	67.5°	5822.4	3561.8	892.5	963.4	1120.5	1311.0	1387.5	1217.9	1007.9	902.3
4077.6	70°	3318.5	2022.8	770.2	875.9	1013.5	1169.2	1308.2	1169.2	946.8	859.2
1527.9	72.5°	1258.2	928.7	665.9	788.3	910.6	1049.6	1220.6	1092.7	875.9	810.5
789.7	75°	671.5	565.8	560.3	685.4	792.4	932.9	1110.8	1017.7	823.0	856.4
546.4	77.5°	457.4	400.4	468.5	586.7	663.1	803.6	994.0	903.7	713.2	710.4
378.1	80°	317.0	283.6	380.9	472.7	513.0	675.7	867.5	775.8	581.1	542.2
233.6	82.5°	190.5	184.9	285.0	353.1	362.9	521.3	718.8	650.6	475.5	414.3
139.0	85°	104.3	109.8	182.1	207.1	211.3	364.2	563.1	503.3	365.6	307.2
50.0	87.5°	29.2	37.5	66.7	82.0	101.5	189.1	335.1	298.9	183.5	127.9
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>
3427.0
3678.6
3838.5
3884.4
3859.3
3800.9
3720.3
3584.1
3435.3
3340.8
3262.9
3176.7
3080.8
2940.4
2758.3
2527.5
2264.7
2002.0
1797.6
1661.3
1532.1
1433.3
1302.7
1190.1
1084.4
1001.0
935.6
885.6
848.1
799.4
<i>884.2</i>
654.8
518.6
417.1
310.0
127.9
0.0

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