

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: P951251

Luminaire Tested: **GALN-SB5B-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951251  
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-SB5B-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

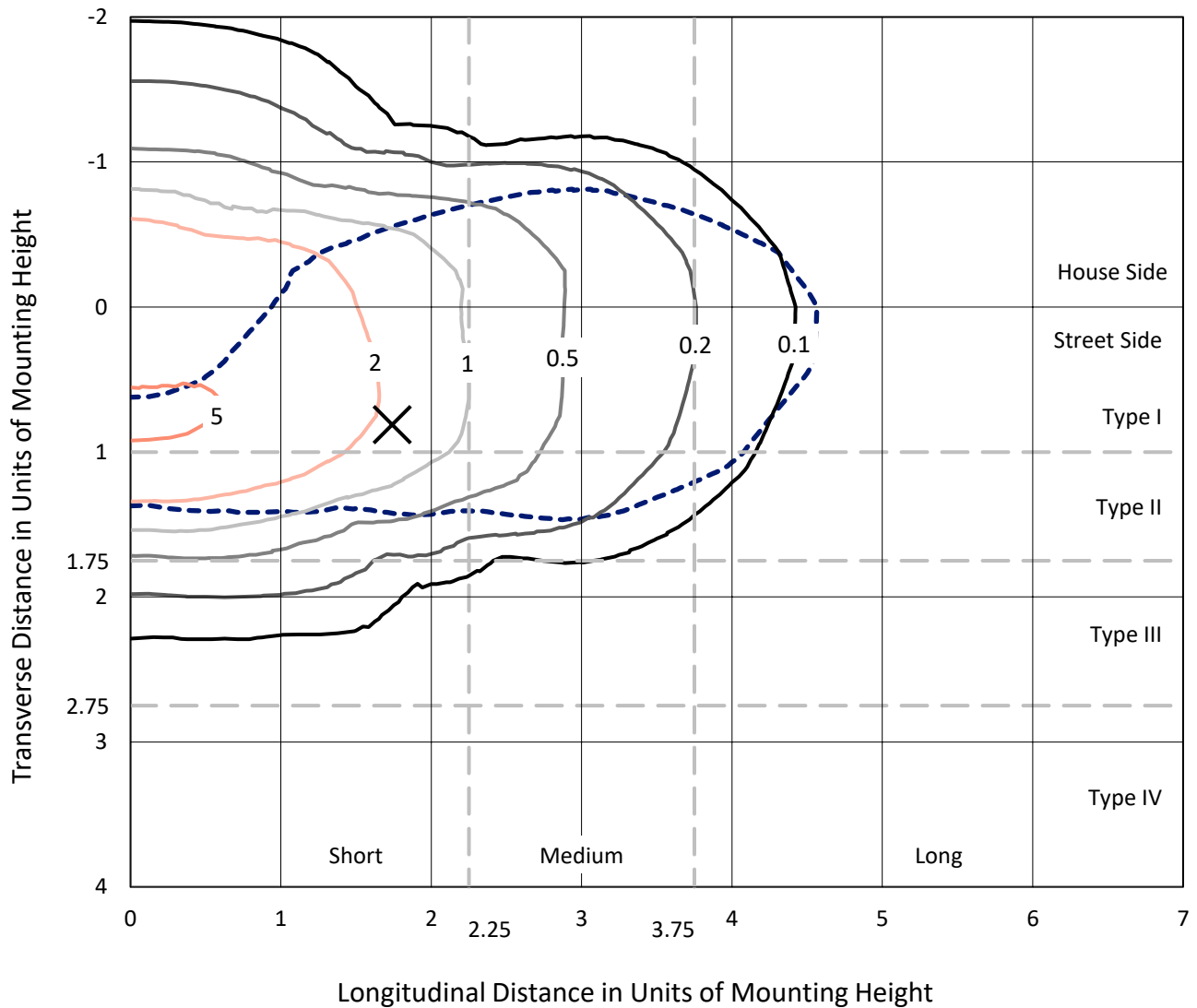
Lumens per Lamp: N/A  
Luminaire Lumens: 20053 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

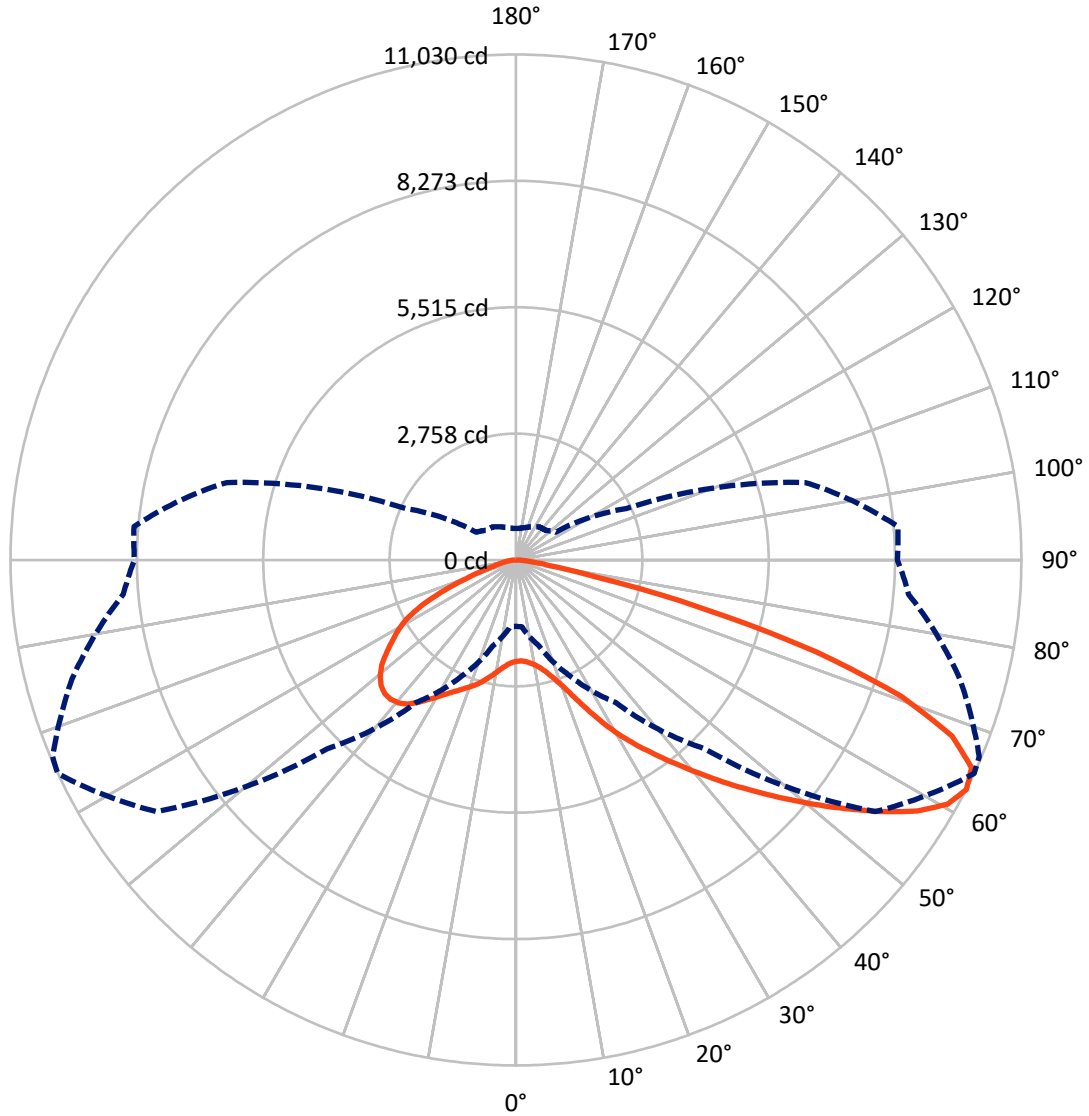
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	6327.9	0.0	6327.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13725.1	0.0	13725.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20053.0	0.0	20053.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.3	1.1
10°-20°	747.1	3.7
20°-30°	1514.8	7.6
30°-40°	2621.3	13.1
40°-50°	3966.9	19.8
50°-60°	4650.9	23.2
60°-70°	3899.3	19.4
70°-80°	2152.7	10.7
80°-90°	279.6	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°	20053.0	100.0
0°-180°	20053.0	100.0



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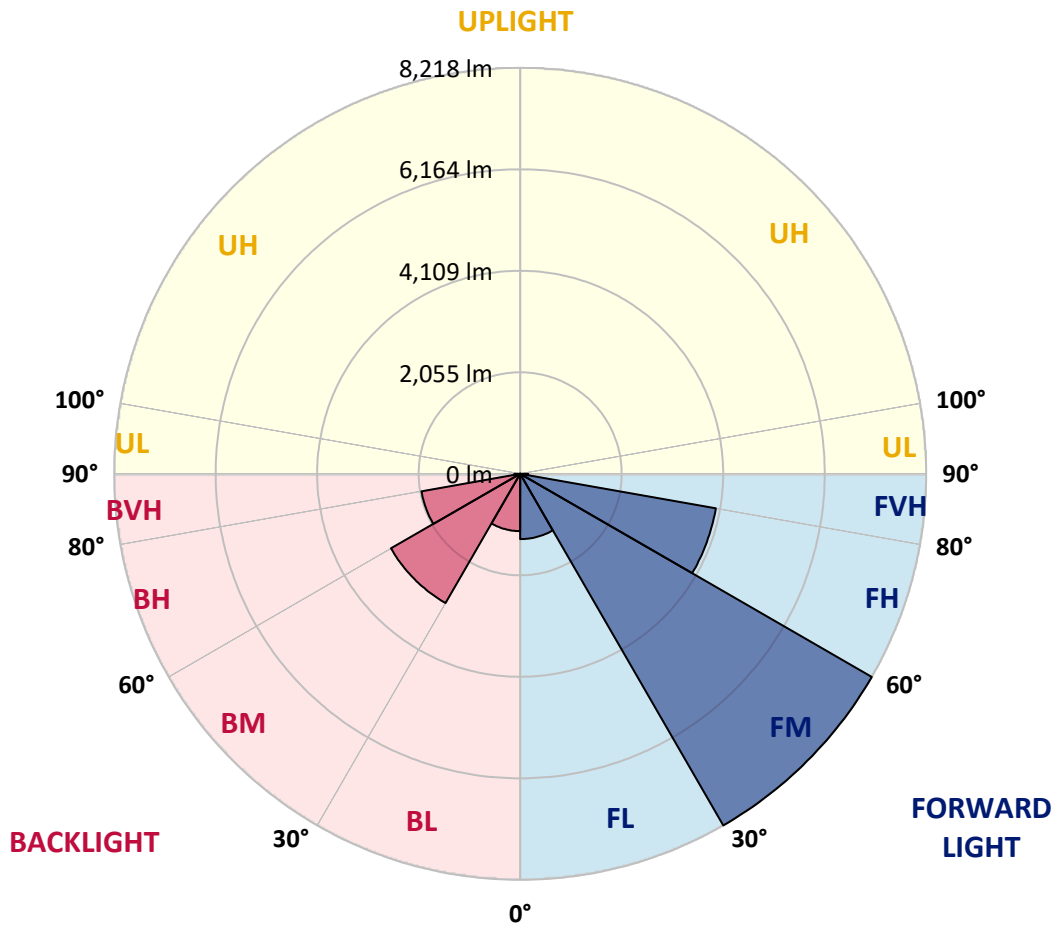
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.8	6.6			
FM (30°-60°)	8218.4	41.0			
FH (60°-80°)	4022.0	20.1			G2/5000
FVH (80°-90°)	163.0	0.8			G2/225
BL (0°-30°)	1160.5	5.8	B3/2500		
BM (30°-60°)	3020.8	15.1	B3/5000		
BH (60°-80°)	2029.9	10.1	B3/2500		G3/2500
BVH (80°-90°)	116.7	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°	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8
2.5°	2195.2	2188.9	2194.1	2194.1	2196.2	2195.2	2202.5	2204.6	2207.7	2213.9
5°	2173.3	2172.3	2181.7	2190.0	2198.3	2205.6	2215.0	2228.5	2230.6	2237.8
7.5°	2166.1	2159.8	2174.4	2184.8	2204.6	2222.2	2247.2	2270.1	2279.5	2282.6
10°	2222.2	2211.8	2225.4	2231.6	2248.2	2265.9	2295.1	2331.5	2341.9	2354.4
12.5°	2318.0	2306.5	2326.3	2335.6	2351.2	2366.9	2386.6	2422.0	2427.2	2450.1
15°	2449.0	2435.5	2448.0	2459.4	2485.5	2500.0	2519.8	2554.1	2554.1	2571.8
17.5°	2626.9	2609.3	2618.6	2622.8	2639.4	2661.3	2694.6	2724.7	2740.3	2734.1
20°	2892.2	2870.4	2870.4	2849.6	2843.3	2861.0	2904.7	2946.3	2963.0	2930.7
22.5°	3290.7	3259.5	3241.8	3171.1	3143.0	3145.0	3188.7	3239.7	3253.2	3196.0
25°	3797.4	3748.5	3724.5	3620.5	3557.0	3501.9	3536.2	3601.8	3620.5	3549.8
27.5°	4304.0	4307.1	4284.3	4159.4	4054.3	3953.4	3935.7	4004.4	4024.2	3944.1
30°	5014.6	4940.7	4897.0	4747.2	4597.4	4455.9	4383.1	4411.2	4416.4	4320.7
32.5°	5627.4	5608.7	5515.0	5383.9	5191.5	4969.9	4848.1	4803.4	4795.1	4658.8
35°	6325.5	6315.1	6216.2	6060.2	5852.1	5544.2	5324.6	5196.7	5186.3	4994.8
37.5°	7035.0	7035.0	6938.3	6767.6	6552.3	6167.3	5833.4	5630.5	5597.2	5347.5
40°	7601.0	7566.6	7584.3	7512.5	7266.0	6857.1	6398.3	6103.9	6059.1	5759.5
42.5°	7922.4	7911.0	8017.1	8097.2	7996.3	7669.6	7020.4	6616.8	6554.4	6213.1
45°	7994.2	7981.7	8171.1	8464.5	8606.0	8471.8	7696.7	7156.7	7080.8	6687.5
47.5°	7828.8	7803.8	8081.6	8544.6	8998.2	9234.4	8429.1	7742.5	7632.2	7149.4
50°	7331.5	7307.6	7727.9	8342.8	9130.3	9752.5	9224.0	8363.6	8195.0	7644.7
52.5°	6250.6	6262.0	6920.6	7765.3	8956.6	10075.0	9908.5	9018.0	8815.1	8151.3
55°	4868.9	4893.9	5703.3	6633.4	8261.6	10026.1	10375.6	9692.1	9490.3	8627.8
57.5°	3486.3	3596.6	4355.0	5275.7	6926.8	9251.0	10477.6	10333.0	10137.4	9148.0
60°	2259.7	2279.5	3059.7	3987.8	5274.7	7873.5	10270.6	10818.8	10665.9	9678.6
62.5°	1448.2	1461.7	1937.2	2789.2	3796.3	5825.1	9573.5	11030.0	10983.2	10029.2
65°	1064.3	1053.9	1301.5	1843.5	2557.2	3592.4	8220.0	10928.1	11020.7	10248.7
67.5°	888.5	873.9	995.6	1276.5	1884.1	2040.2	6082.0	10265.4	10604.5	10223.8
70°	809.4	796.9	870.8	947.8	1470.0	1366.0	3066.0	8924.3	9446.6	9939.7
72.5°	685.6	663.8	764.7	841.7	1143.4	1047.7	1267.2	6855.0	7491.7	9029.4
75°	531.6	517.1	603.4	740.7	859.3	817.7	801.1	4162.5	4857.5	6983.0
77.5°	421.4	401.6	480.7	577.4	773.0	616.9	583.6	1792.6	2481.3	4458.0
80°	317.3	299.6	365.2	456.7	594.1	465.0	377.7	731.4	935.3	2258.7
82.5°	225.8	210.2	254.9	335.0	399.5	417.2	232.0	409.9	460.9	870.8
85°	144.6	135.2	170.6	210.2	253.9	268.4	141.5	214.3	235.1	358.9
87.5°	79.1	64.5	91.6	97.8	117.6	107.2	67.6	78.0	84.3	130.0
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°
2209.8	0°	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8	2209.8
2213.9	2.5°	2218.1	2221.2	2231.6	2234.7	2242.0	2251.4	2257.6	2263.9	2263.9	2270.1
2247.2	5°	2248.2	2255.5	2277.4	2288.8	2307.5	2326.3	2337.7	2351.2	2359.6	2363.7
2300.3	7.5°	2306.5	2318.0	2349.2	2368.9	2401.2	2427.2	2444.9	2463.6	2467.8	2479.2
2374.1	10°	2385.6	2399.1	2434.5	2471.9	2510.4	2542.7	2559.3	2572.8	2578.0	2580.1
2468.8	12.5°	2476.1	2495.9	2541.6	2587.4	2628.0	2656.1	2660.2	2657.1	2642.5	2630.1
2585.3	15°	2587.4	2605.1	2656.1	2706.0	2745.5	2750.7	2724.7	2708.1	2690.4	2687.3
2715.4	17.5°	2720.6	2729.9	2776.8	2825.7	2828.8	2811.1	2772.6	2757.0	2740.3	2728.9
2885.0	20°	2875.6	2872.5	2905.8	2926.6	2904.7	2850.6	2792.4	2766.4	2749.7	2736.2
3093.0	22.5°	3060.8	3036.9	3032.7	3027.5	2969.2	2855.8	2776.8	2743.5	2717.5	2698.7
3383.3	25°	3330.2	3238.7	3175.2	3139.8	3008.8	2827.7	2726.8	2653.0	2604.1	2571.8
3738.1	27.5°	3667.3	3513.3	3353.1	3266.8	3008.8	2770.5	2606.1	2486.5	2406.4	2373.1
4081.4	30°	3988.8	3827.5	3591.4	3419.7	3001.5	2676.9	2411.6	2245.1	2151.5	2118.2
4374.8	32.5°	4263.5	4087.6	3844.2	3587.2	2983.8	2525.0	2170.2	1986.1	1895.6	1856.0
4665.0	35°	4518.3	4331.1	4098.0	3771.4	2937.0	2302.3	1904.9	1764.5	1663.6	1600.1
4960.5	37.5°	4779.5	4556.8	4338.4	3937.8	2852.7	2042.3	1701.0	1581.4	1462.8	1377.5
5274.7	40°	5063.5	4797.2	4595.3	4036.6	2714.3	1794.6	1542.9	1433.6	1307.7	1217.2
5636.7	42.5°	5395.4	5085.3	4881.4	4087.6	2525.0	1618.8	1439.9	1332.7	1214.1	1140.2
6024.8	45°	5741.8	5402.7	5142.6	4086.6	2313.8	1536.6	1406.6	1300.5	1169.4	1092.4
6423.3	47.5°	6104.9	5734.5	5368.3	4020.0	2130.7	1548.1	1387.9	1230.8	1086.2	1011.2
6825.9	50°	6469.0	6097.6	5586.8	3895.2	2052.7	1523.1	1318.2	1133.0	962.3	894.7
7203.5	52.5°	6830.1	6483.6	5775.1	3717.3	1973.6	1430.5	1228.7	1006.0	911.4	864.6
7593.7	55°	7193.1	6865.4	5980.1	3458.2	1775.9	1322.3	1078.9	958.2	870.8	828.1
7975.5	57.5°	7557.3	7306.5	6174.6	3199.1	1527.3	1189.1	996.7	899.9	830.2	793.8
8294.9	60°	7936.0	7811.1	6375.4	2960.9	1281.7	1018.5	936.3	853.1	782.4	741.8
8601.8	62.5°	8326.1	8366.7	6532.5	2654.0	1056.0	914.5	882.2	796.9	728.3	689.8
8855.7	65°	8719.4	8902.5	6635.5	2228.5	856.2	815.7	824.0	735.5	665.8	632.5
9041.9	67.5°	9015.9	9288.5	6606.4	1686.4	702.3	722.0	751.1	671.0	605.5	579.5
9011.7	70°	9049.2	9242.7	6319.2	1154.8	587.8	630.5	670.0	607.6	540.0	521.2
8587.2	72.5°	8606.0	8618.5	5519.2	754.3	497.3	553.5	584.7	543.1	477.5	458.8
7512.5	75°	7443.9	7127.6	4052.3	497.3	416.1	475.5	504.6	475.5	412.0	416.1
5621.1	77.5°	5639.9	5047.9	2460.5	353.7	347.5	399.5	439.0	418.2	364.1	408.9
2826.7	80°	2905.8	2731.0	1097.6	264.3	274.7	319.4	361.0	334.0	288.2	274.7
631.5	82.5°	665.8	774.0	432.8	189.3	198.7	229.9	275.7	250.7	207.0	174.8
263.2	85°	233.0	254.9	191.4	118.6	116.5	143.6	187.3	167.5	140.5	112.4
111.3	87.5°	73.9	96.8	71.8	47.9	49.9	64.5	86.4	79.1	65.5	42.7
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>
2209.8
2270.1
2365.8
2475.0
2574.9
2630.1
2687.3
2729.9
2737.2
2705.0
2584.3
2389.7
2138.0
1875.8
1620.9
1400.3
1234.9
1154.8
1104.9
1021.6
898.9
864.6
824.0
787.6
738.7
688.7
631.5
580.5
522.3
457.8
401.6
360.0
250.7
172.7
118.6
44.7
0.0

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