

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: P942269

Luminaire Tested: **GALN-SB6A-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942269  
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-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

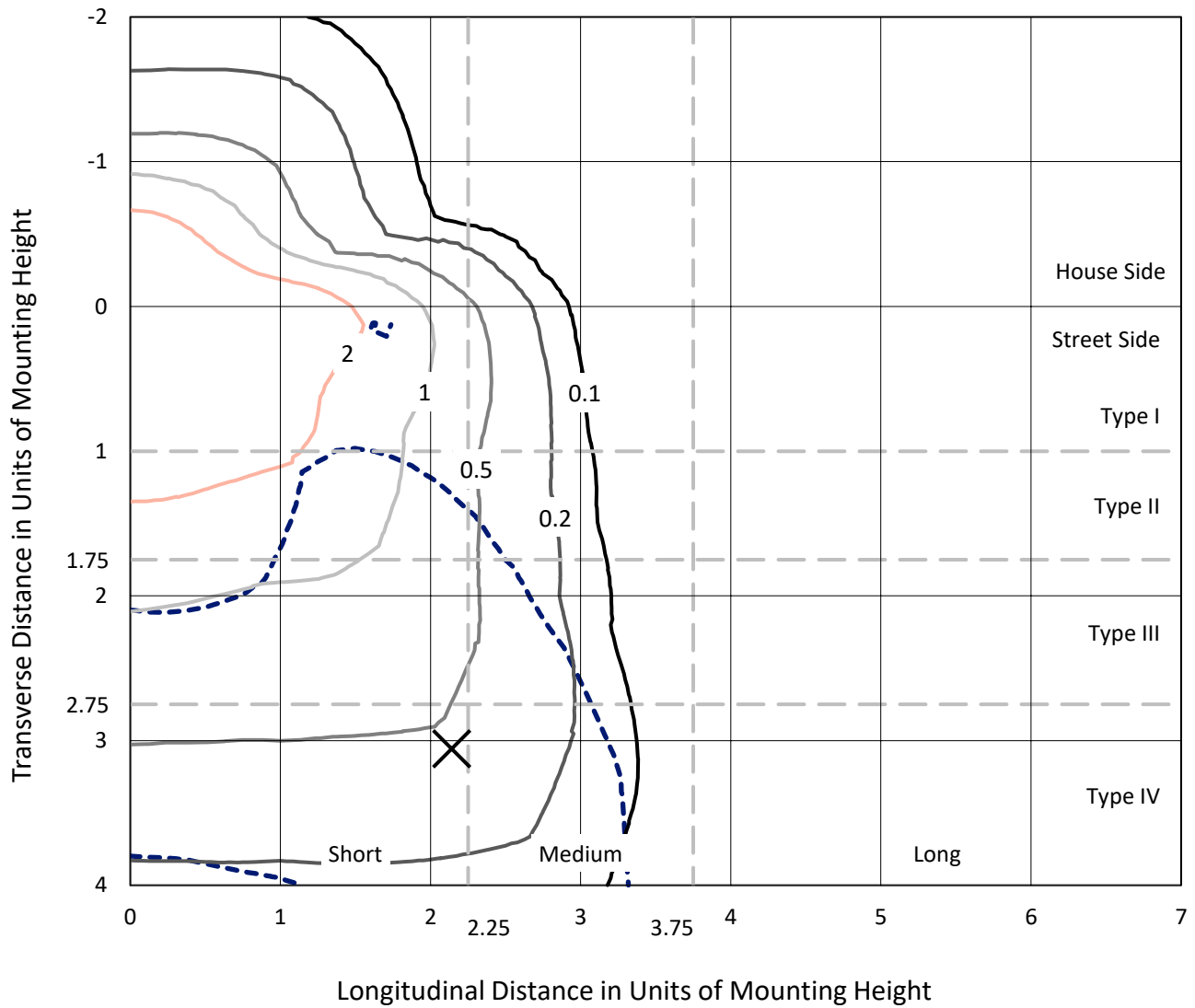
Lumens per Lamp: N/A  
Luminaire Lumens: 19482 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

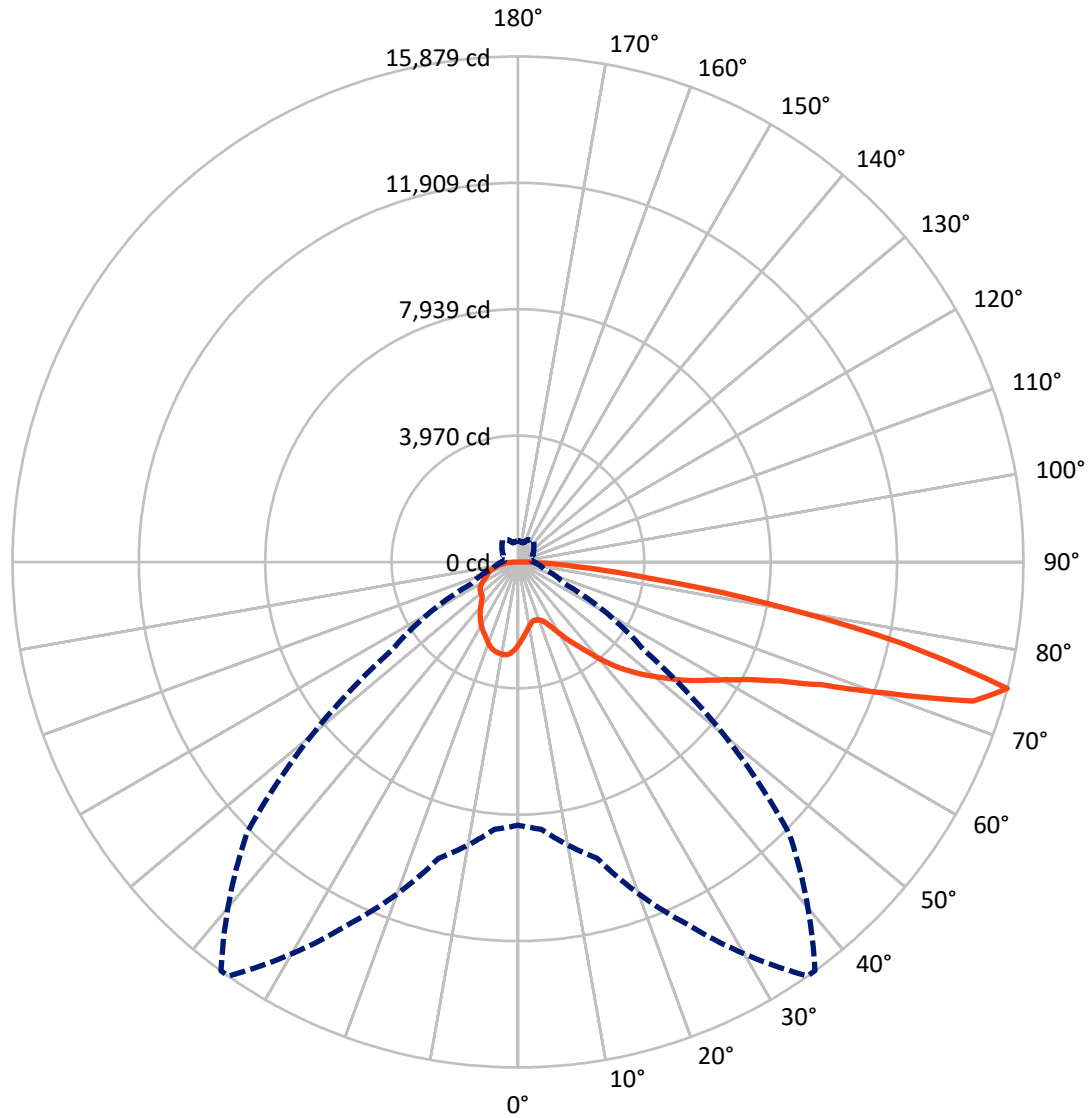
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	4636.2	0.0	4636.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	14845.8	0.0	14845.8
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	19482.0	0.0	19482.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.8	1.3
10°-20°	709.0	3.6
20°-30°	1190.6	6.1
30°-40°	1850.3	9.5
40°-50°	2746.4	14.1
50°-60°	3791.6	19.5
60°-70°	4600.0	23.6
70°-80°	3801.6	19.5
80°-90°	546.8	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°	19482.0	100.0
0°-180°	19482.0	100.0



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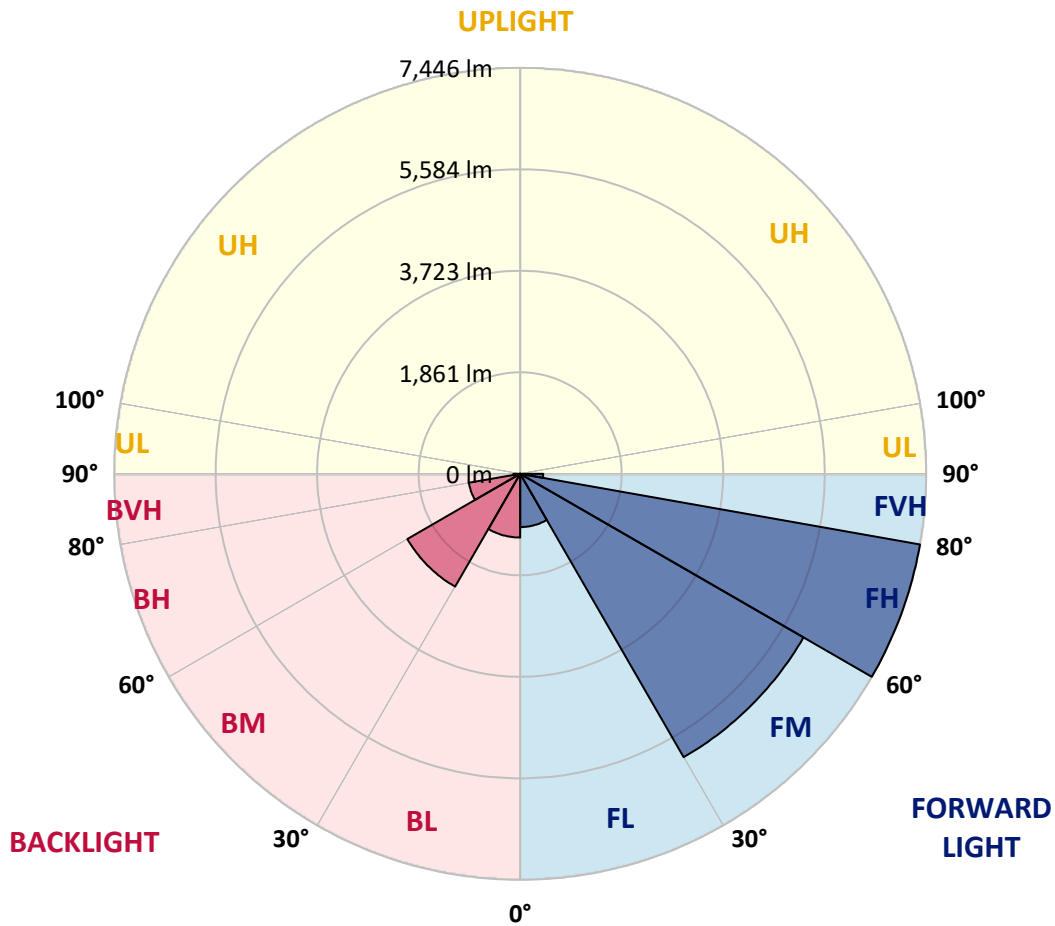
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.0	5.0			
FM (30°-60°)	5999.4	30.8			
FH (60°-80°)	7445.7	38.2			G3/7500
FVH (80°-90°)	423.7	2.2			G3/500
BL (0°-30°)	1168.4	6.0	B3/2500		
BM (30°-60°)	2388.9	12.3	B2/2500		
BH (60°-80°)	955.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	123.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1
2.5°	2393.9	2408.6	2415.0	2411.8	2427.6	2425.5	2447.6	2475.0	2512.9	2549.8
5°	2209.6	2225.4	2239.1	2251.7	2282.3	2291.7	2326.5	2379.2	2448.7	2519.2
7.5°	2037.9	2051.6	2072.7	2095.8	2147.5	2156.9	2214.9	2297.0	2393.9	2497.1
10°	1897.8	1911.5	1933.7	1960.0	2024.2	2035.8	2109.5	2219.1	2345.4	2476.0
12.5°	1837.8	1842.0	1854.7	1881.0	1936.8	1944.2	2025.3	2150.6	2298.1	2460.2
15°	1834.7	1843.1	1844.1	1857.8	1904.2	1907.3	1982.1	2106.4	2268.6	2457.1
17.5°	1866.2	1872.6	1863.1	1871.5	1910.5	1915.7	1974.7	2085.3	2259.1	2470.8
20°	1950.5	1955.8	1927.3	1915.7	1944.2	1948.4	2006.3	2099.0	2268.6	2499.2
22.5°	2129.5	2132.7	2063.2	2015.8	2017.9	2020.0	2070.6	2154.8	2305.4	2550.8
25°	2408.6	2406.5	2295.9	2204.3	2151.7	2140.1	2173.8	2245.4	2367.6	2619.3
27.5°	2735.1	2719.3	2608.7	2471.8	2357.0	2340.2	2332.8	2363.4	2456.0	2709.9
30°	3103.7	3089.0	2970.0	2790.9	2631.9	2604.5	2535.0	2519.2	2587.7	2833.1
32.5°	3508.2	3498.7	3356.5	3139.6	2926.8	2895.2	2778.3	2736.2	2789.9	3019.5
35°	3847.3	3838.9	3720.9	3497.6	3237.5	3198.5	3079.5	3032.1	3059.5	3258.6
37.5°	4153.8	4149.6	4048.5	3872.6	3604.0	3556.6	3422.9	3407.1	3401.8	3573.5
40°	4438.1	4427.6	4322.3	4229.6	4030.6	3987.4	3869.4	3855.7	3815.7	3961.0
42.5°	4753.0	4725.7	4572.9	4529.8	4476.0	4440.2	4369.7	4371.8	4283.3	4398.1
45°	5010.0	4994.2	4837.3	4812.0	4869.9	4855.2	4916.3	4932.1	4760.4	4856.2
47.5°	5286.0	5271.2	5138.5	5120.6	5277.5	5281.7	5497.6	5502.9	5225.9	5332.3
50°	5626.1	5605.1	5473.4	5495.5	5671.4	5687.2	6082.2	6046.4	5654.6	5815.7
52.5°	5850.5	5863.1	5834.7	5870.5	6110.6	6125.3	6657.2	6565.6	6079.0	6292.8
55°	6015.8	6041.1	6129.6	6211.7	6574.0	6588.7	7199.6	7059.5	6430.8	6735.1
57.5°	6228.6	6192.7	6358.1	6518.2	7014.2	7053.2	7727.2	7535.6	6742.5	7116.4
60°	6534.0	6508.7	6637.2	6874.2	7507.1	7569.3	8285.4	7964.2	6971.1	7418.7
62.5°	7153.3	7090.1	7110.1	7319.7	8128.5	8210.7	8915.2	8338.1	7084.8	7536.6
65°	8079.0	7970.5	7869.4	8014.8	9003.7	9084.8	9626.1	8631.9	7042.7	7308.1
67.5°	9244.9	9137.5	9013.2	9150.1	10292.8	10357.1	10503.4	8797.3	6710.9	6427.6
70°	10206.4	10166.4	10314.9	10878.4	12351.8	12353.9	11628.2	8660.4	5802.0	4557.1
72.5°	10079.0	10054.8	10837.3	12579.3	14946.8	14891.0	12693.0	7624.0	3908.4	2055.8
75°	8268.6	8425.5	9637.7	12548.7	15878.9	15871.5	12041.1	4846.8	1616.6	852.0
77.5°	4433.9	4682.5	6257.0	9264.9	12396.0	12582.4	8465.5	1695.6	694.1	545.6
80°	1446.0	1663.0	2493.9	4717.2	8054.8	8020.0	3628.2	665.6	475.0	386.5
82.5°	614.0	639.3	1114.3	2227.5	4133.8	4069.5	1155.3	382.3	333.9	264.4
85°	240.1	268.6	491.8	1030.0	1790.4	1751.5	417.1	189.6	213.8	172.7
87.5°	79.0	95.8	175.9	352.8	557.1	537.1	102.2	65.3	92.7	79.0
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°
2596.1	0°	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1	2596.1
2603.5	2.5°	2618.2	2635.1	2655.1	2684.6	2709.9	2730.9	2753.0	2766.7	2772.0	2787.8
2607.7	5°	2637.2	2674.0	2723.5	2772.0	2819.4	2847.8	2873.1	2885.7	2897.3	2905.7
2619.3	7.5°	2668.8	2716.2	2794.1	2857.3	2897.3	2920.5	2937.3	2933.1	2937.3	2939.4
2631.9	10°	2696.2	2762.5	2855.2	2915.2	2945.8	2946.8	2942.6	2927.9	2920.5	2921.5
2650.9	12.5°	2728.8	2802.5	2902.6	2953.1	2961.6	2938.4	2920.5	2895.2	2885.7	2881.5
2679.3	15°	2773.0	2857.3	2954.2	2973.1	2952.1	2922.6	2892.1	2851.0	2829.9	2813.1
2727.8	17.5°	2826.8	2919.4	2994.2	2980.5	2935.2	2886.8	2837.3	2775.2	2732.0	2714.1
2794.1	20°	2901.5	2984.7	3024.8	2964.7	2896.3	2822.5	2738.3	2662.5	2622.4	2604.5
2878.4	22.5°	2992.1	3072.1	3054.2	2937.3	2840.4	2722.5	2617.2	2561.4	2541.3	2528.7
2986.8	25°	3100.6	3169.0	3075.3	2897.3	2748.8	2589.8	2508.7	2490.8	2481.3	2471.8
3119.5	27.5°	3241.7	3278.6	3091.1	2838.3	2605.6	2448.7	2419.2	2422.3	2419.2	2403.4
3303.9	30°	3428.1	3420.8	3105.9	2742.5	2441.3	2321.2	2323.3	2337.0	2339.1	2328.6
3560.8	32.5°	3673.5	3598.7	3113.2	2618.2	2284.4	2209.6	2211.7	2226.4	2237.0	2219.1
3896.8	35°	3970.5	3806.2	3101.6	2462.4	2163.2	2103.2	2087.4	2091.6	2094.8	2077.9
4304.4	37.5°	4317.0	4039.0	3050.0	2289.6	2063.2	1999.0	1965.2	1936.8	1920.0	1904.2
4765.7	40°	4697.2	4292.8	2955.2	2121.1	1951.6	1888.4	1837.8	1784.1	1727.2	1706.2
5254.4	42.5°	5095.3	4554.0	2840.4	1960.0	1823.1	1771.5	1717.7	1639.8	1554.5	1511.3
5762.0	45°	5508.2	4821.5	2727.8	1801.0	1691.4	1669.3	1607.2	1513.4	1420.8	1366.0
6270.7	47.5°	5912.6	5074.3	2562.4	1640.9	1568.2	1592.4	1544.0	1457.6	1354.4	1268.0
6775.2	50°	6299.1	5311.2	2291.7	1478.7	1468.1	1569.3	1522.9	1398.6	1280.7	1170.1
7270.2	52.5°	6682.5	5502.9	1945.2	1331.2	1414.4	1562.9	1495.5	1358.6	1214.3	1098.5
7735.7	55°	7007.9	5601.9	1611.4	1204.8	1336.5	1509.2	1462.9	1311.2	1120.6	997.4
8054.8	57.5°	7193.3	5521.9	1333.3	1080.6	1229.1	1420.8	1407.1	1210.1	1009.0	914.2
8116.9	60°	7113.2	5197.5	1105.8	972.1	1126.9	1324.9	1310.2	1110.1	923.6	834.1
7784.1	62.5°	6671.9	4579.3	925.8	877.3	1034.2	1227.0	1213.3	1033.2	858.3	772.0
6900.5	65°	5783.1	3725.1	785.7	798.3	940.5	1109.0	1129.0	968.9	806.7	722.5
5338.6	67.5°	4410.8	2698.3	676.1	729.9	848.9	993.2	1051.1	922.6	763.6	683.5
3089.0	70°	2514.0	1532.4	583.5	663.5	767.8	885.7	991.0	885.7	717.2	650.9
1157.5	72.5°	953.1	703.5	504.5	597.2	689.8	795.2	924.7	827.8	663.5	614.0
598.2	75°	508.7	428.6	424.4	519.2	600.3	706.7	841.5	770.9	623.5	648.8
413.9	77.5°	346.5	303.3	354.9	444.4	502.4	608.7	753.0	684.6	540.3	538.2
286.5	80°	240.1	214.9	288.6	358.1	388.6	511.8	657.2	587.7	440.2	410.7
176.9	82.5°	144.3	140.1	215.9	267.5	274.9	394.9	544.5	492.9	360.2	313.9
105.3	85°	79.0	83.2	138.0	156.9	160.1	275.9	426.5	381.3	277.0	232.8
37.9	87.5°	22.1	28.4	50.6	62.1	76.9	143.2	253.8	226.4	139.0	96.9
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>
2596.1
2786.7
2907.9
2942.6
2923.6
2879.4
2818.3
2715.1
2602.4
2530.8
2471.8
2406.5
2333.9
2227.5
2089.5
1914.7
1715.6
1516.6
1361.8
1258.6
1160.6
1085.8
986.8
901.5
821.5
758.3
708.8
670.9
642.4
605.6
669.8
496.1
392.8
316.0
234.9
96.9
0.0

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