

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: P941214

Luminaire Tested: **GALN-SB4C-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13341 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

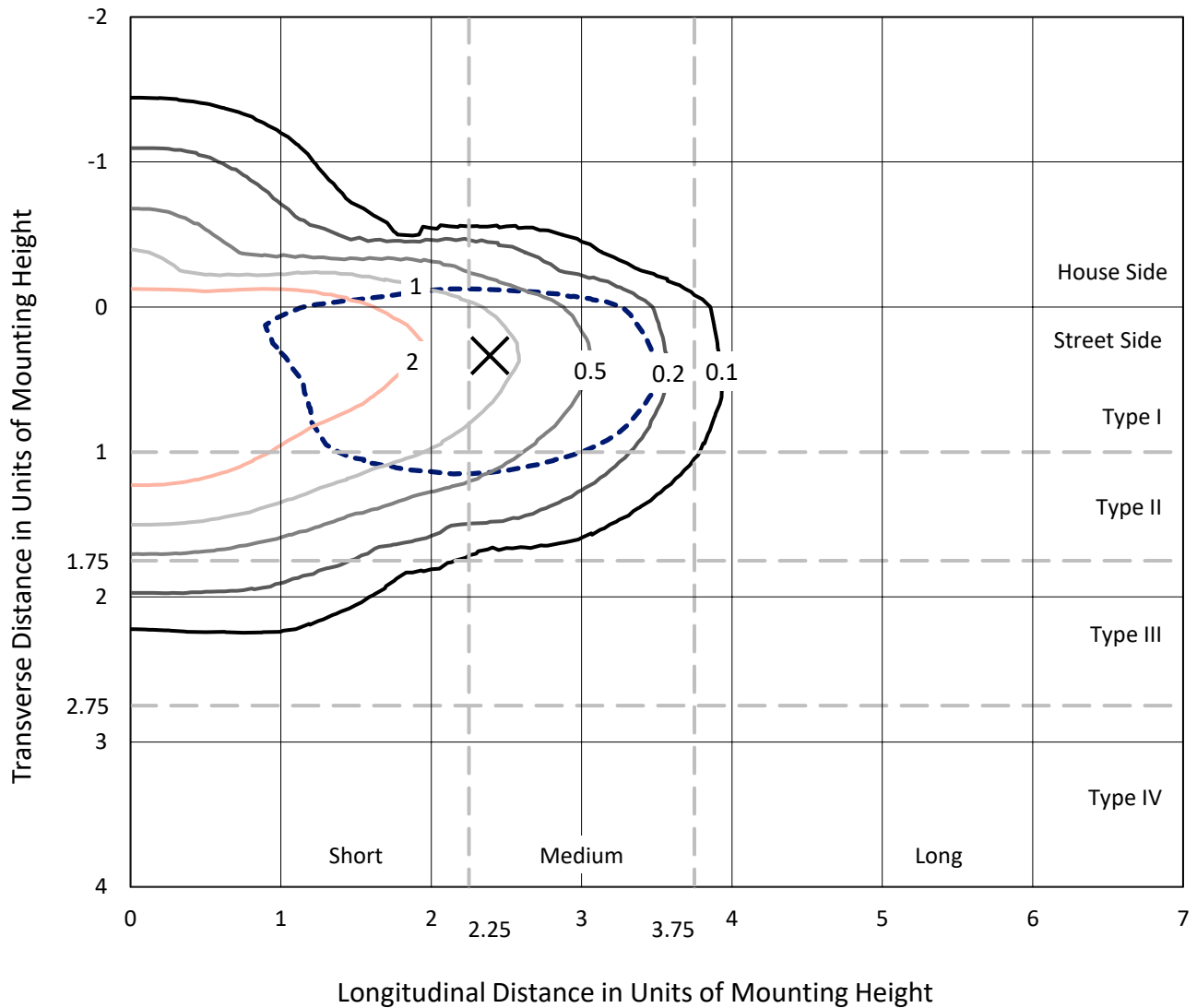
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941214
 CATALOG NUMBER: GALN-SB4C-927-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

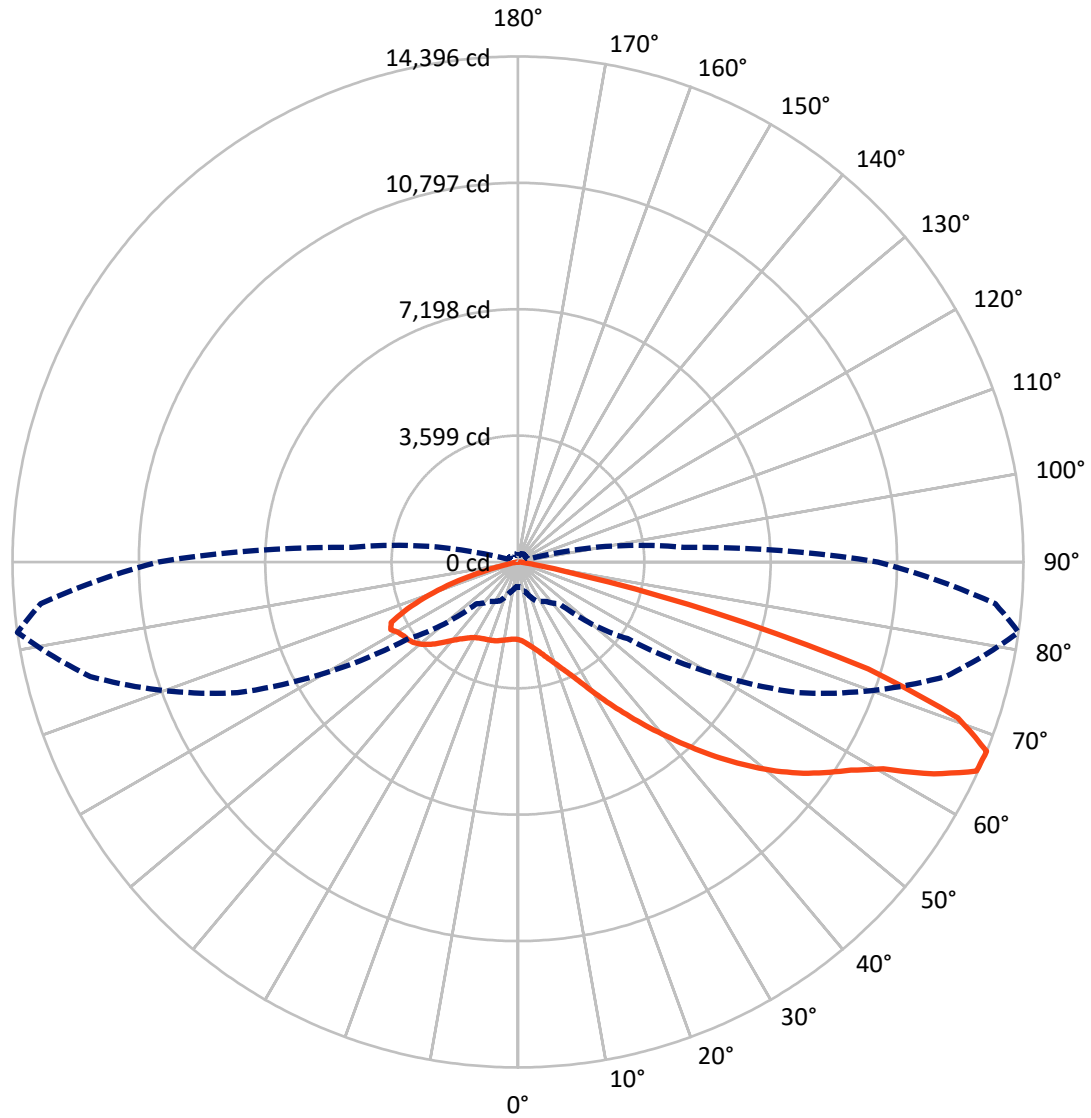
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P941214
CATALOG NUMBER: GALN-SB4C-927-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2416.6	0.0	2416.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10924.4	0.0	10924.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	13341.0	0.0	13341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.5
10°-20°	511.7	3.8
20°-30°	819.6	6.1
30°-40°	1449.2	10.9
40°-50°	2539.2	19.0
50°-60°	3386.6	25.4
60°-70°	3152.7	23.6
70°-80°	1210.0	9.1
80°-90°	75.1	0.6
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°	13341.0	100.0
0°-180°	13341.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941214

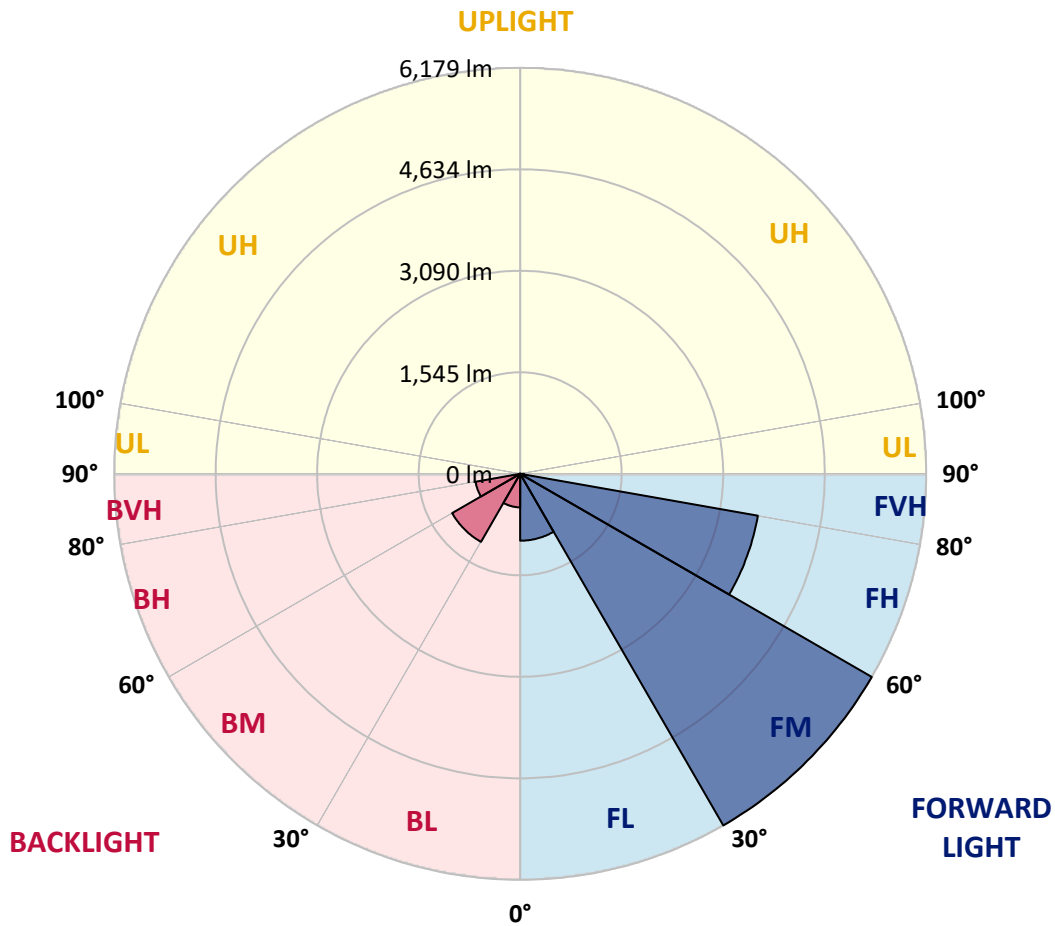
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.8	7.6			
FM (30°-60°)	6179.0	46.3			
FH (60°-80°)	3673.0	27.5			G2/5000
FVH (80°-90°)	54.6	0.4			G1/100
BL (0°-30°)	510.4	3.8	B2/1000		
BM (30°-60°)	1196.0	9.0	B2/2500		
BH (60°-80°)	689.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P941214

CATALOG NUMBER: GALN-SB4C-927-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2
2.5°	2336.0	2349.4	2341.7	2337.9	2331.2	2321.6	2313.9	2289.9	2264.9	2248.6
5°	2383.0	2396.5	2395.5	2399.4	2404.2	2407.1	2405.1	2378.2	2342.7	2314.8
7.5°	2342.7	2358.1	2370.6	2389.8	2423.4	2458.9	2476.2	2470.5	2434.0	2395.5
10°	2228.4	2244.7	2274.5	2319.7	2390.7	2467.6	2531.9	2561.7	2538.6	2496.4
12.5°	2019.0	2035.3	2093.9	2191.9	2311.0	2444.5	2567.5	2647.2	2653.0	2610.7
15°	1783.7	1800.0	1862.4	1985.4	2166.9	2381.1	2586.7	2737.5	2788.4	2751.9
17.5°	1637.7	1652.1	1699.2	1798.1	1987.3	2254.3	2580.0	2833.5	2949.8	2920.9
20°	1593.5	1606.0	1628.1	1697.2	1854.8	2122.7	2535.8	2923.8	3123.6	3107.3
22.5°	1640.6	1652.1	1658.8	1689.6	1788.5	2036.3	2480.1	3016.0	3325.3	3327.2
25°	1749.1	1760.6	1752.9	1772.2	1815.4	2009.4	2458.9	3124.6	3578.9	3600.0
27.5°	1927.8	1928.7	1910.5	1909.5	1916.2	2049.7	2481.0	3240.8	3898.7	3938.1
30°	2286.0	2271.6	2201.5	2125.6	2091.0	2170.8	2542.5	3378.1	4276.2	4346.3
32.5°	2838.3	2817.2	2688.5	2507.0	2324.5	2365.8	2653.0	3534.7	4687.3	4814.1
35°	3437.7	3431.9	3297.5	3027.6	2708.7	2643.3	2832.6	3740.3	5135.9	5337.6
37.5°	3994.8	3991.9	3915.1	3597.1	3209.1	3030.4	3120.7	4009.2	5616.1	5908.1
40°	4503.9	4512.5	4435.7	4151.4	3760.4	3527.0	3512.6	4341.5	6150.2	6529.6
42.5°	4943.8	4953.4	4875.6	4665.2	4305.0	4076.4	3993.8	4748.8	6671.8	7197.2
45°	5242.5	5302.1	5290.5	5122.4	4864.1	4626.8	4572.1	5259.8	7266.3	7905.1
47.5°	5327.0	5381.8	5468.2	5491.3	5333.8	5100.4	5165.7	5875.5	7867.6	8613.9
50°	5118.6	5169.5	5349.1	5588.3	5697.8	5625.8	5742.9	6535.4	8483.3	9320.9
52.5°	4707.5	4759.4	4986.0	5364.5	5811.1	6037.8	6322.1	7185.6	9079.8	9990.3
55°	4112.9	4167.7	4458.7	4887.1	5595.0	6207.8	6805.3	7834.9	9626.3	10592.6
57.5°	3304.2	3344.5	3647.1	4246.5	5051.4	6038.8	7161.6	8543.8	10141.2	11184.3
60°	2153.5	2189.0	2540.6	3209.1	4150.4	5474.0	7232.7	9334.3	10825.0	11953.6
62.5°	1432.1	1456.1	1664.6	2155.4	2922.9	4389.6	6816.8	9965.4	11827.8	13292.6
65°	982.6	1006.6	1215.1	1557.0	1888.4	2903.6	5621.0	9881.8	12736.5	14355.9
67.5°	701.2	721.3	898.1	1220.8	1366.8	1686.7	3810.4	8813.7	12605.8	14396.2
70°	502.4	513.9	659.9	950.9	1086.3	1013.3	2118.9	6740.9	11037.3	13293.6
72.5°	351.5	355.4	458.2	724.2	875.0	739.6	1008.5	4494.3	8347.9	10434.1
75°	238.2	243.0	308.3	531.2	702.1	564.8	534.0	2409.9	4900.6	5775.6
77.5°	146.0	147.9	198.8	363.1	525.4	430.3	343.9	1021.0	1896.1	1861.5
80°	82.6	82.6	126.8	225.7	358.3	277.6	241.1	434.2	600.3	527.3
82.5°	46.1	47.1	92.2	140.2	237.2	164.2	132.6	200.7	259.3	229.6
85°	19.2	21.1	56.7	66.3	113.3	81.6	53.8	84.5	96.1	85.5
87.5°	1.9	2.9	17.3	12.5	13.4	16.3	7.7	16.3	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941214
 CATALOG NUMBER: GALN-SB4C-927-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2210.2	0°	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2	2210.2
2242.8	2.5°	2224.6	2210.2	2173.7	2131.4	2075.7	2048.8	2012.3	1987.3	1966.2	1968.1
2298.5	5°	2267.8	2231.3	2149.6	2047.8	1921.0	1830.7	1734.7	1668.4	1614.6	1603.1
2375.4	7.5°	2327.3	2269.7	2126.6	1943.1	1728.9	1566.6	1421.6	1328.4	1262.1	1241.0
2468.5	10°	2404.2	2320.6	2096.8	1811.5	1503.2	1296.7	1141.1	1068.1	1023.0	1007.6
2578.0	12.5°	2493.5	2379.2	2057.4	1651.1	1270.8	1071.9	973.0	936.5	922.1	917.3
2712.5	15°	2605.9	2452.2	1997.9	1460.9	1073.9	934.6	892.3	887.5	889.4	887.5
2873.9	17.5°	2739.4	2531.9	1900.9	1265.0	941.3	864.5	849.1	852.9	857.7	856.8
3054.4	20°	2885.4	2610.7	1777.0	1091.1	851.0	814.5	805.9	809.7	813.6	811.6
3262.9	22.5°	3051.6	2695.2	1639.6	955.7	790.5	768.4	758.8	759.8	759.8	755.9
3527.0	25°	3250.4	2788.4	1495.5	859.7	744.4	727.1	715.6	711.7	706.0	694.5
3847.8	27.5°	3487.6	2887.3	1357.2	792.4	707.9	691.6	678.1	668.5	654.1	634.9
4233.0	30°	3754.7	3007.4	1240.0	750.2	679.1	662.8	647.4	633.0	611.9	587.8
4675.8	32.5°	4068.8	3136.1	1154.5	722.3	653.2	635.9	617.6	600.3	577.3	553.3
5173.4	35°	4443.4	3291.7	1104.6	703.1	633.0	609.9	589.8	570.5	553.3	532.1
5714.1	37.5°	4849.7	3456.9	1089.2	693.5	619.5	584.0	560.9	547.5	545.6	533.1
6299.1	40°	5294.4	3652.9	1100.8	687.7	605.1	559.0	534.0	531.2	536.0	513.9
6924.4	42.5°	5765.0	3885.3	1120.0	681.0	585.0	534.0	510.0	510.0	506.2	475.5
7585.2	45°	6274.1	4153.3	1139.2	664.7	560.9	509.1	490.8	484.1	467.8	438.0
8249.9	47.5°	6787.0	4426.1	1153.6	634.9	532.1	487.9	471.6	456.2	432.2	405.3
8902.1	50°	7274.0	4671.0	1138.2	590.7	499.5	467.8	450.5	429.4	403.4	385.2
9519.7	52.5°	7709.1	4883.3	1072.9	538.9	464.9	446.6	431.3	409.2	388.0	368.8
10076.8	55°	8087.6	5055.2	957.6	489.9	434.2	428.4	413.0	385.2	356.4	340.0
10629.1	57.5°	8450.6	5185.8	813.6	449.5	406.3	408.2	385.2	360.2	333.3	316.0
11373.5	60°	8933.8	5360.7	667.6	412.1	376.5	382.3	357.3	339.1	305.4	283.4
12650.0	62.5°	9706.0	5632.5	530.2	366.0	341.9	343.9	333.3	311.2	270.9	244.9
13596.1	65°	10318.8	5532.6	417.8	316.0	302.6	305.4	305.4	281.4	238.2	208.4
13647.0	67.5°	10249.7	4737.3	333.3	267.0	265.1	267.0	273.7	253.6	211.3	187.3
12607.8	70°	9441.9	3768.1	267.0	221.9	230.5	225.7	244.9	231.5	190.2	166.2
9774.2	72.5°	7704.3	2714.4	203.6	183.5	176.7	184.4	220.9	208.4	158.5	131.6
5177.2	75°	4501.9	1448.5	151.8	145.0	127.7	153.7	195.9	177.7	121.0	97.0
1586.8	77.5°	1465.8	505.2	111.4	106.6	95.1	123.9	167.1	149.8	98.9	76.8
464.9	80°	392.9	152.7	75.9	70.1	61.5	92.2	132.6	119.1	71.1	49.9
199.8	82.5°	157.5	64.4	44.2	39.4	33.6	63.4	104.7	96.1	52.8	31.7
62.4	85°	50.9	21.1	16.3	12.5	15.4	39.4	62.4	65.3	37.5	16.3
9.6	87.5°	6.7	2.9	2.9	3.8	2.9	6.7	19.2	18.2	10.6	1.9
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

180°
2210.2
1948.9
1577.2
1219.9
996.1
914.4
886.6
854.9
810.7
754.0
692.5
633.0
585.9
554.2
530.2
532.1
514.8
475.5
437.0
404.4
382.3
366.9
338.1
314.1
280.5
243.0
205.6
183.5
163.3
128.7
94.1
74.0
49.0
31.7
12.5
0.0
0.0

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