

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: STREETWORKS

Report Number: P848018

Luminaire Tested: **GLAN-SB4B-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19391 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

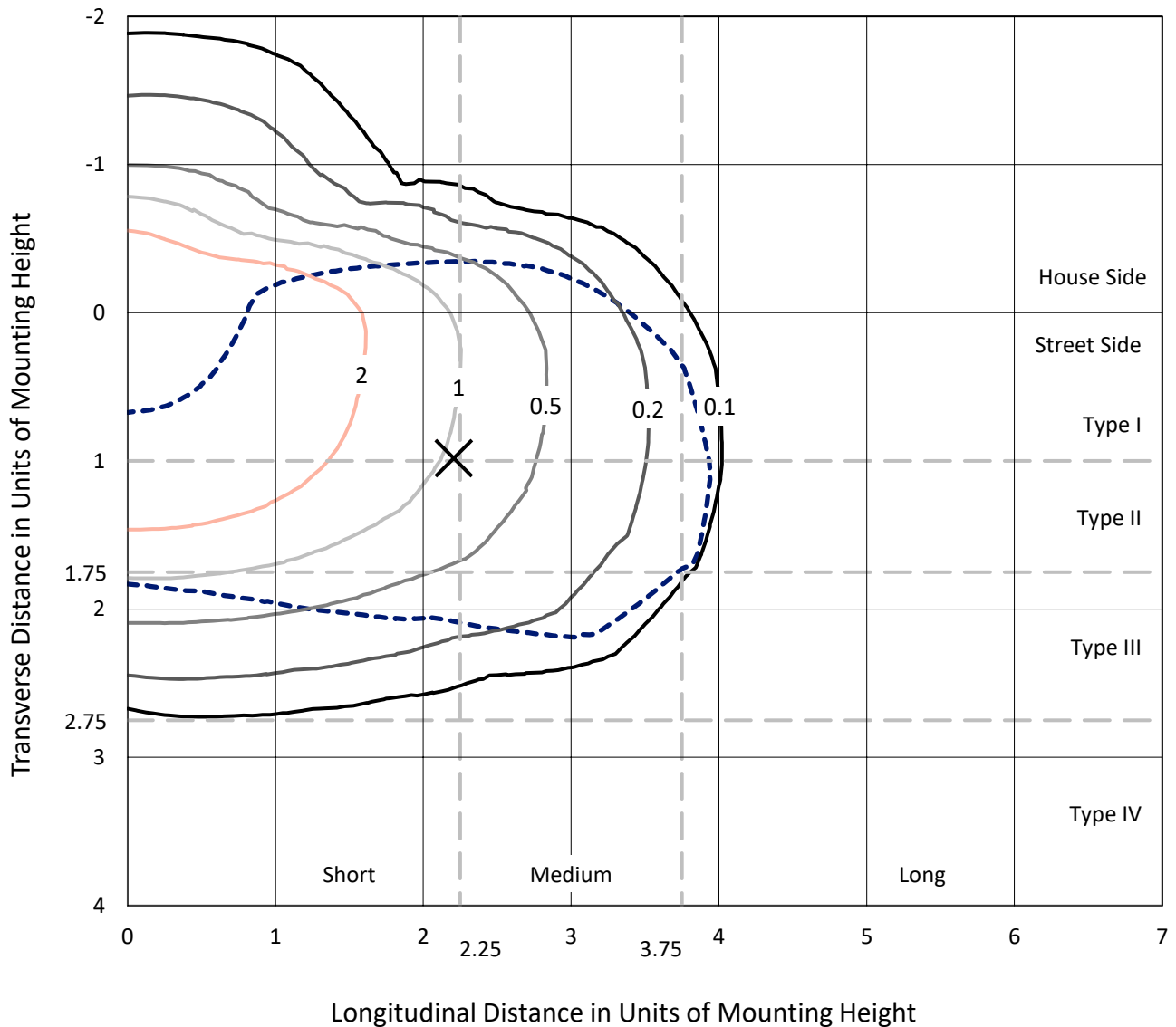
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

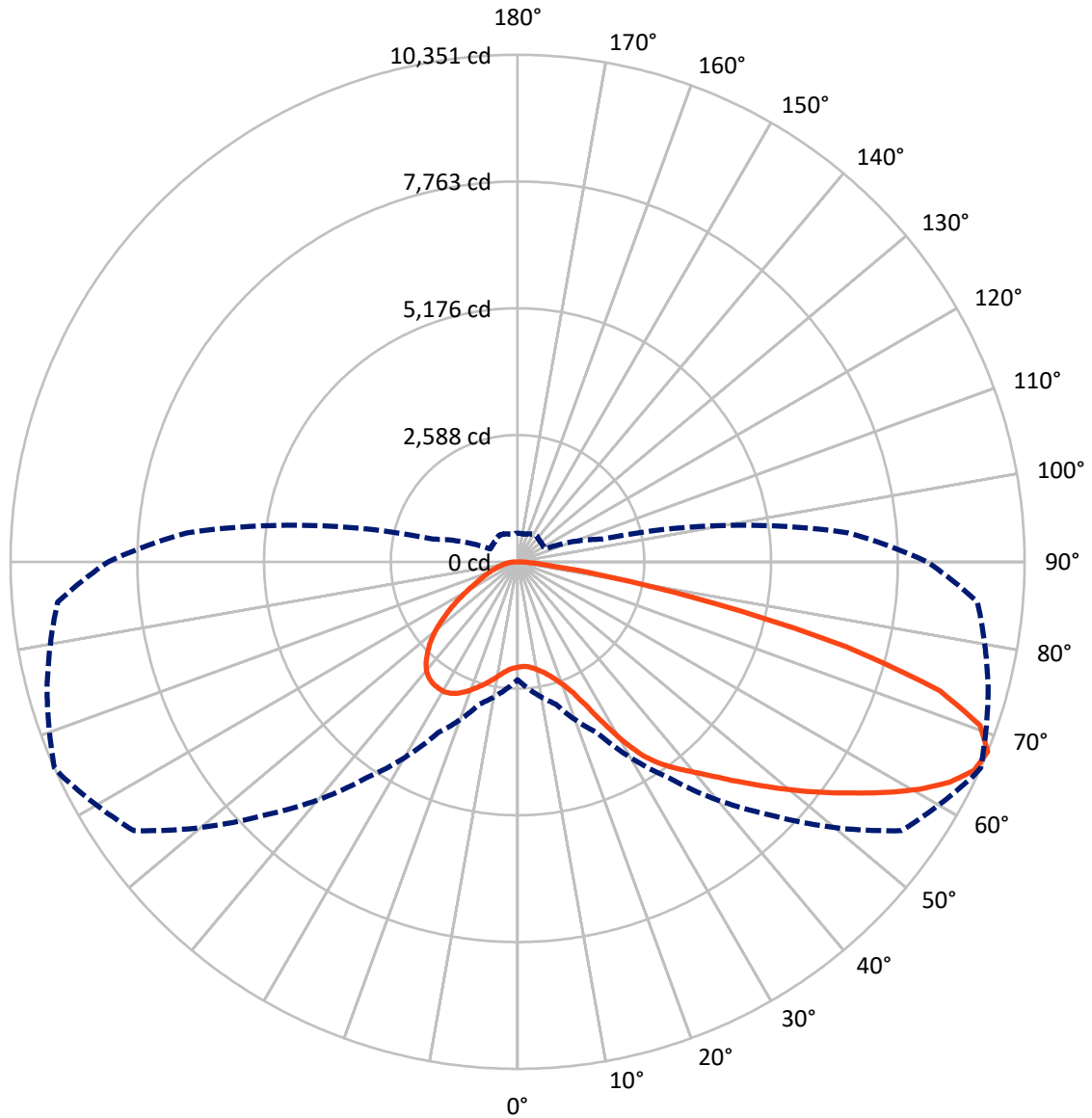
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4821.5	0.0	4821.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14569.5	0.0	14569.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	19391.0	0.0	19391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.1
10°-20°	704.5	3.6
20°-30°	1357.9	7.0
30°-40°	2380.9	12.3
40°-50°	3539.6	18.3
50°-60°	4486.8	23.1
60°-70°	4390.2	22.6
70°-80°	2094.2	10.8
80°-90°	223.8	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°	19391.0	100.0
0°-180°	19391.0	100.0

Coefficient of Utilization



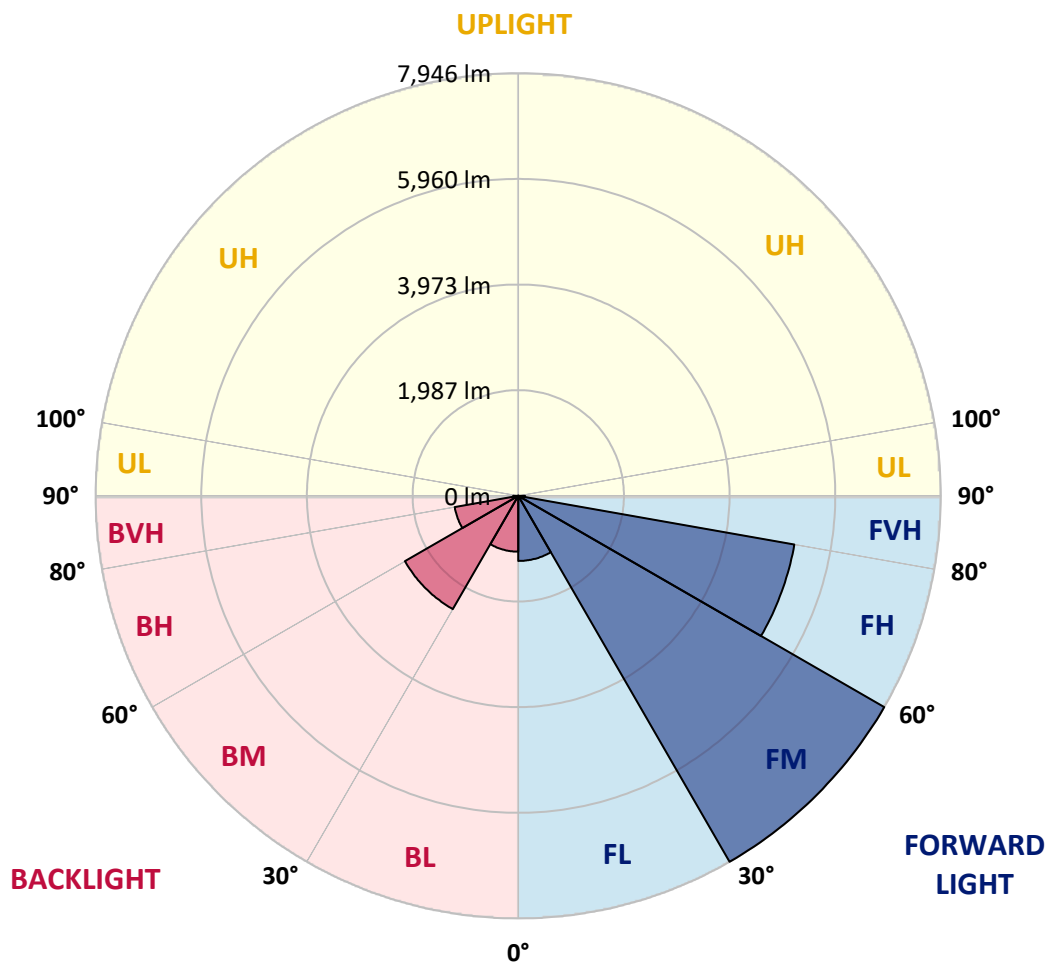
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.3	6.3			
FM (30°-60°)	7946.3	41.0			
FH (60°-80°)	5271.0	27.2			G3/7500
FVH (80°-90°)	126.9	0.7			G2/225
BL (0°-30°)	1050.3	5.4	B3/2500		
BM (30°-60°)	2461.0	12.7	B2/2500		
BH (60°-80°)	1213.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	96.9	0.5			G1/100
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°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2128.3	2140.5	2137.5	2132.4	2131.4	2133.4	2136.5	2139.5	2138.5	2143.6
5°	2122.2	2134.4	2133.4	2133.4	2137.5	2145.6	2150.7	2155.8	2150.7	2156.8
7.5°	2126.3	2135.4	2139.5	2143.6	2153.8	2169.1	2181.3	2192.5	2186.4	2193.5
10°	2178.2	2185.4	2189.4	2189.4	2196.6	2213.9	2226.1	2246.5	2241.4	2252.6
12.5°	2273.0	2280.1	2280.1	2276.0	2281.1	2292.3	2296.4	2318.8	2309.7	2328.0
15°	2389.1	2403.4	2392.2	2385.0	2387.1	2398.3	2397.3	2414.6	2405.4	2420.7
17.5°	2517.5	2535.8	2517.5	2516.5	2512.4	2524.6	2525.6	2540.9	2524.6	2535.8
20°	2669.3	2694.8	2679.5	2684.6	2675.4	2680.5	2685.6	2708.0	2682.5	2690.7
22.5°	2883.2	2913.8	2897.5	2916.9	2910.8	2906.7	2905.7	2945.4	2905.7	2908.7
25°	3195.0	3231.7	3203.2	3229.6	3229.6	3242.9	3258.2	3309.1	3242.9	3223.5
27.5°	3655.5	3692.2	3636.2	3652.5	3647.4	3680.0	3663.7	3790.0	3718.7	3687.1
30°	4209.7	4274.9	4169.0	4164.9	4159.8	4211.8	4235.2	4318.8	4246.4	4214.8
32.5°	4808.8	4877.1	4750.7	4714.1	4694.7	4726.3	4706.9	4774.2	4724.2	4675.3
35°	5442.5	5509.8	5389.5	5318.2	5240.8	5174.6	5105.3	5122.6	5075.7	5001.4
37.5°	6041.6	6164.8	6037.5	5961.1	5818.5	5689.1	5495.5	5415.0	5371.2	5302.9
40°	6651.8	6722.1	6625.4	6560.1	6405.3	6202.5	5892.8	5722.7	5663.6	5597.4
42.5°	7101.1	7168.4	7116.4	7071.6	6950.4	6715.0	6314.6	6101.7	6016.1	5941.7
45°	7457.7	7507.6	7475.0	7491.3	7439.4	7211.2	6751.7	6508.2	6419.6	6328.9
47.5°	7601.4	7654.4	7706.3	7803.1	7891.7	7723.6	7221.4	6948.3	6854.6	6761.9
50°	7585.1	7639.1	7789.9	7995.7	8270.7	8214.7	7716.5	7417.0	7330.4	7224.4
52.5°	7454.7	7515.8	7709.4	8051.7	8489.8	8582.5	8220.8	7900.9	7819.4	7693.1
55°	7112.3	7149.0	7439.4	7924.3	8541.7	8839.2	8714.9	8416.4	8334.9	8158.7
57.5°	6477.6	6530.6	6953.4	7581.0	8411.3	9013.5	9149.0	8958.4	8880.0	8626.3
60°	5649.3	5733.9	6217.8	7004.4	8079.2	9012.4	9543.2	9491.3	9426.1	9086.8
62.5°	4712.0	4809.8	5275.4	6189.3	7498.5	8756.7	9789.8	9937.5	9903.9	9511.7
65°	3618.8	3686.1	4149.6	5134.8	6594.8	8207.6	9818.3	10242.1	10248.3	9834.6
67.5°	2409.5	2603.1	3005.5	3853.2	5384.4	7310.0	9567.7	10292.1	10351.2	9945.7
70°	1175.7	1430.4	1824.7	2504.2	3853.2	5933.6	8912.6	9882.5	10013.9	9621.7
72.5°	488.0	570.5	785.5	1235.8	2211.8	4003.9	7596.3	8772.0	9015.5	8525.4
75°	329.1	356.6	449.3	633.7	1007.6	1974.5	5478.2	6540.8	6933.0	6438.9
77.5°	253.7	271.0	327.0	443.2	599.1	746.8	2932.1	3941.8	4144.5	3836.9
80°	199.7	212.9	244.5	323.0	424.8	399.4	999.5	1786.0	1903.1	1596.5
82.5°	173.2	178.3	175.2	219.0	282.2	233.3	328.1	659.2	727.4	527.7
85°	125.3	139.6	145.7	135.5	149.8	118.2	134.5	233.3	256.7	229.2
87.5°	50.9	75.4	92.7	87.6	55.0	33.6	41.8	68.3	78.4	85.6
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°
2150.7	0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2151.7	2.5°	2152.8	2159.9	2165.0	2171.1	2175.2	2181.3	2193.5	2200.6	2201.7	2206.8
2168.0	5°	2172.1	2182.3	2193.5	2209.8	2228.1	2243.4	2266.9	2283.2	2289.3	2294.4
2207.8	7.5°	2213.9	2228.1	2248.5	2277.1	2303.5	2323.9	2352.4	2371.8	2391.2	2398.3
2270.9	10°	2276.0	2296.4	2326.0	2364.7	2393.2	2419.7	2449.2	2465.5	2484.9	2493.0
2346.3	12.5°	2353.5	2374.9	2413.6	2467.6	2494.1	2512.4	2522.6	2518.5	2522.6	2529.7
2437.0	15°	2442.1	2465.5	2509.3	2567.4	2585.8	2569.5	2547.0	2526.7	2523.6	2525.6
2547.0	17.5°	2547.0	2564.4	2615.3	2664.2	2651.0	2583.7	2534.8	2502.2	2485.9	2480.8
2687.6	20°	2693.7	2693.7	2735.5	2766.1	2677.4	2563.3	2486.9	2433.9	2400.3	2386.1
2879.2	22.5°	2872.0	2855.7	2882.2	2860.8	2672.4	2506.3	2400.3	2308.6	2257.7	2237.3
3147.1	25°	3098.2	3078.9	3071.7	2939.3	2635.7	2415.6	2243.4	2132.4	2087.6	2076.3
3533.2	27.5°	3439.5	3390.6	3297.9	2982.1	2568.4	2273.0	2060.0	1957.1	1931.7	1932.7
4029.4	30°	3893.9	3796.1	3568.9	2989.2	2458.4	2071.3	1872.6	1799.2	1787.0	1792.1
4446.1	32.5°	4314.7	4222.0	3846.0	2956.6	2289.3	1873.6	1704.5	1655.6	1637.2	1643.3
4764.0	35°	4644.8	4619.3	4102.8	2910.8	2081.4	1688.2	1553.7	1511.9	1476.3	1468.1
5063.5	37.5°	4956.5	4946.3	4295.3	2846.6	1875.6	1556.7	1432.5	1377.4	1325.5	1297.0
5394.6	40°	5298.9	5288.7	4421.7	2747.7	1693.3	1442.6	1323.4	1251.1	1186.9	1135.0
5769.5	42.5°	5684.0	5623.9	4481.8	2606.1	1538.4	1345.9	1234.8	1137.0	1052.4	1004.6
6193.4	45°	6104.7	5969.2	4480.7	2425.8	1408.0	1257.2	1140.1	1001.5	923.0	878.2
6628.4	47.5°	6551.0	6299.3	4425.7	2226.1	1281.7	1159.4	993.3	887.4	835.4	807.9
7101.1	50°	7011.5	6608.0	4332.0	1996.9	1152.3	1048.4	901.7	829.3	789.6	764.1
7569.8	52.5°	7444.5	6888.2	4218.9	1737.1	1020.9	940.4	860.9	804.9	763.1	734.6
8024.2	55°	7846.9	7129.7	4059.0	1471.2	913.9	868.0	841.5	794.7	746.8	713.2
8485.7	57.5°	8204.5	7286.6	3782.9	1221.6	837.5	818.1	821.2	777.4	722.3	693.8
8940.1	60°	8502.0	7401.7	3374.3	990.3	775.3	769.2	789.6	744.8	680.6	648.0
9324.2	62.5°	8680.3	7399.7	2873.1	811.0	722.3	724.4	747.8	704.0	638.8	608.2
9524.9	65°	8665.0	7218.3	2322.9	693.8	671.4	673.4	704.0	659.2	604.2	585.8
9424.0	67.5°	8358.4	6776.1	1781.9	617.4	615.4	624.5	660.2	628.6	582.8	580.7
8822.9	70°	7528.0	5858.2	1283.7	556.3	557.3	570.5	617.4	609.3	571.6	575.6
7418.0	72.5°	6036.5	4466.5	861.9	492.1	493.1	514.5	576.6	594.0	560.3	614.3
5263.2	75°	4020.2	2785.4	554.2	423.8	424.8	452.4	541.0	564.4	529.8	612.3
2738.6	77.5°	1931.7	1252.1	401.4	356.6	356.6	382.1	467.6	505.3	451.3	475.8
880.3	80°	667.3	470.7	315.8	287.3	281.2	298.5	394.3	438.1	389.2	358.6
287.3	82.5°	262.9	244.5	253.7	223.1	202.7	214.0	306.7	361.7	286.3	258.8
162.0	85°	150.8	158.9	179.3	147.7	117.2	131.4	225.2	259.8	216.0	190.5
53.0	87.5°	40.8	56.0	82.5	76.4	53.0	56.0	107.0	143.7	124.3	95.8
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°
2150.7
2205.7
2293.4
2399.3
2497.1
2531.8
2532.8
2487.9
2383.0
2234.3
2078.4
1935.7
1809.4
1651.5
1474.2
1298.0
1140.1
1007.6
876.2
801.8
754.9
722.3
699.9
675.5
633.7
599.1
584.8
583.8
574.6
622.5
617.4
436.1
336.2
257.8
194.6
98.8
0.0

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