

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: P851075

Luminaire Tested: **GLAN-SB8D-850-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8D-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA 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: 51593 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

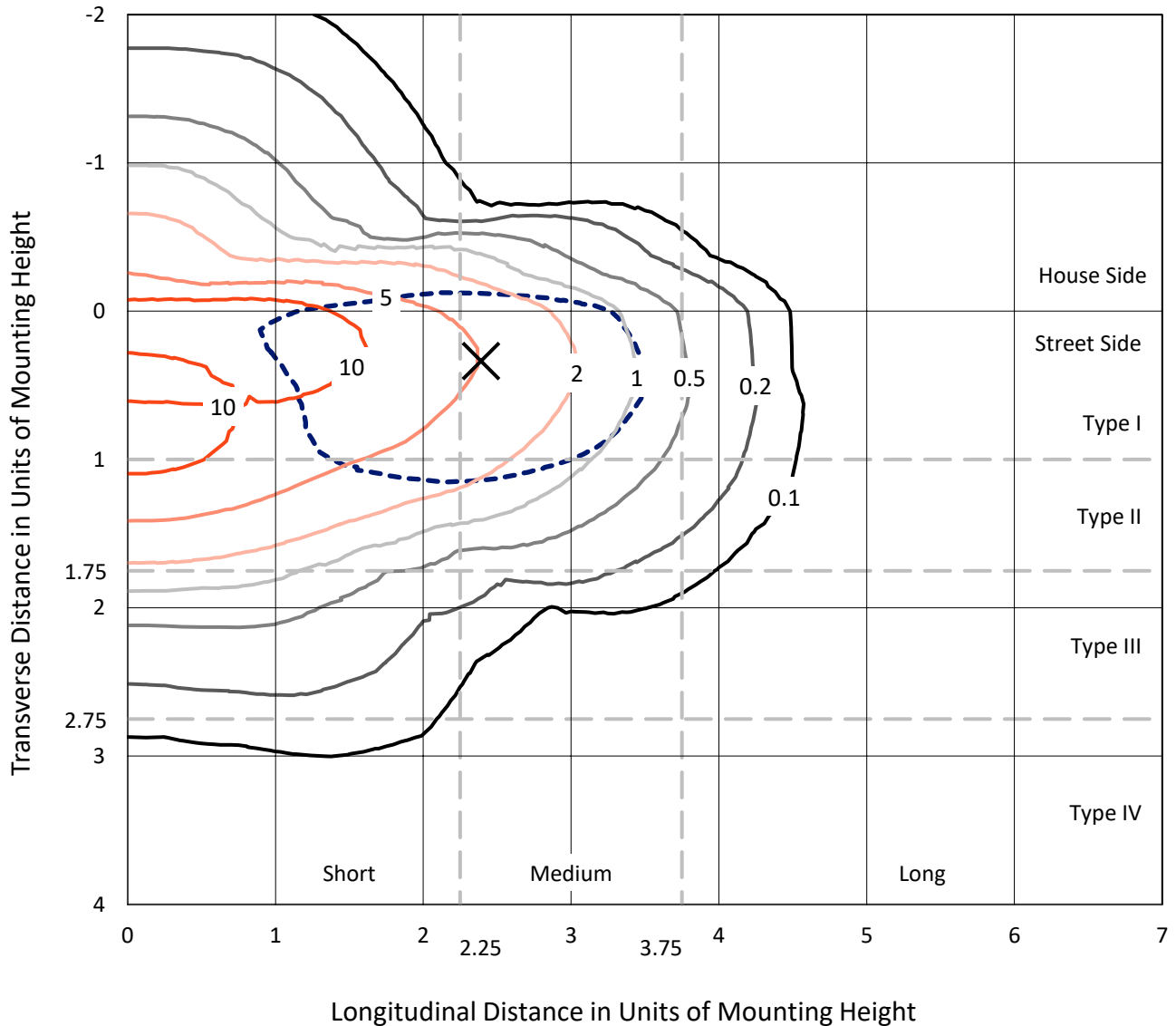
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

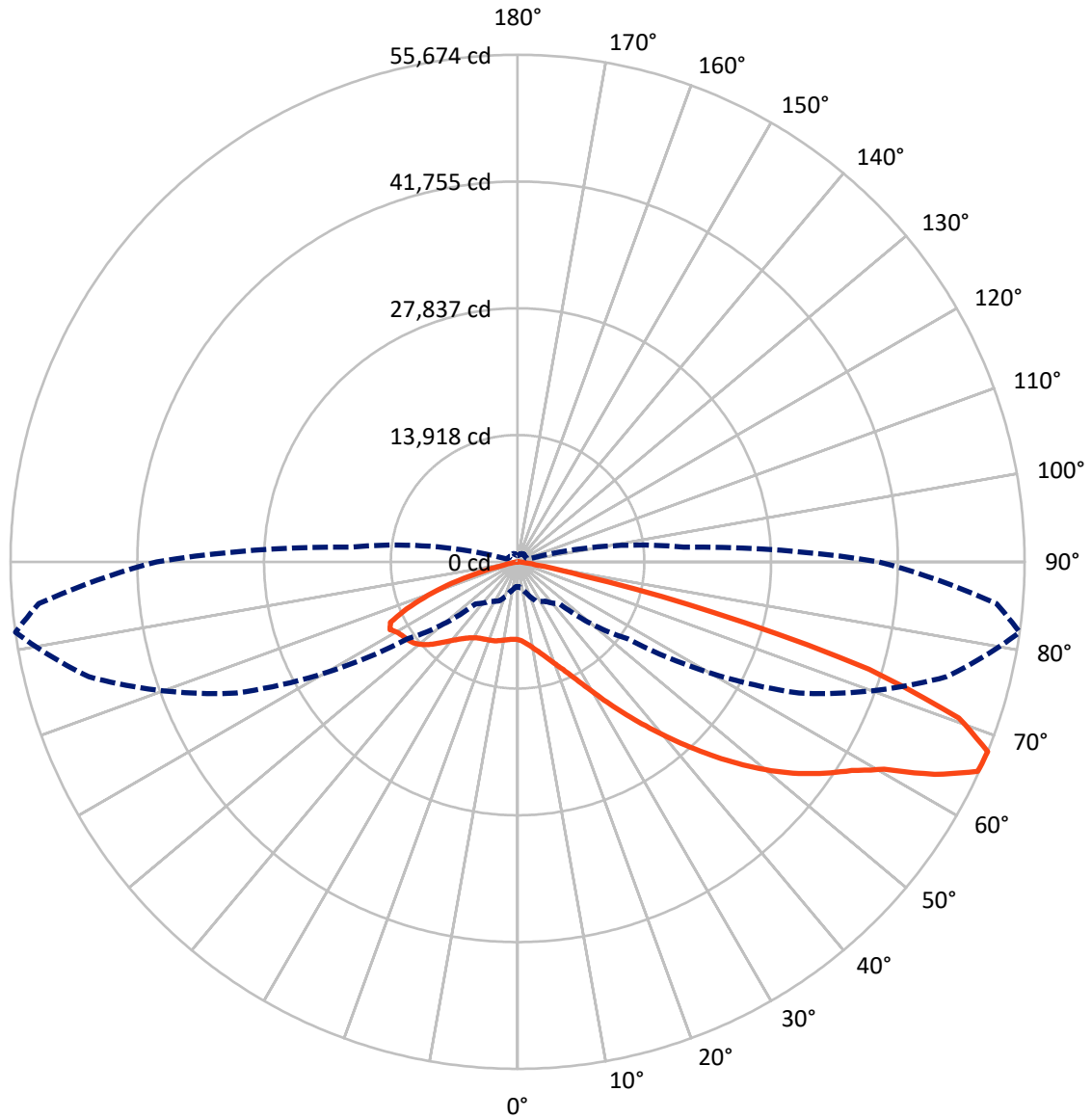
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Medium - N/A

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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	9345.6	0.0	9345.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42247.4	0.0	42247.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	51593.0	0.0	51593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.5	1.5
10°-20°	1978.8	3.8
20°-30°	3169.4	6.1
30°-40°	5604.5	10.9
40°-50°	9819.7	19.0
50°-60°	13096.7	25.4
60°-70°	12192.3	23.6
70°-80°	4679.4	9.1
80°-90°	290.6	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°	51593.0	100.0
0°-180°	51593.0	100.0

Coefficient of Utilization

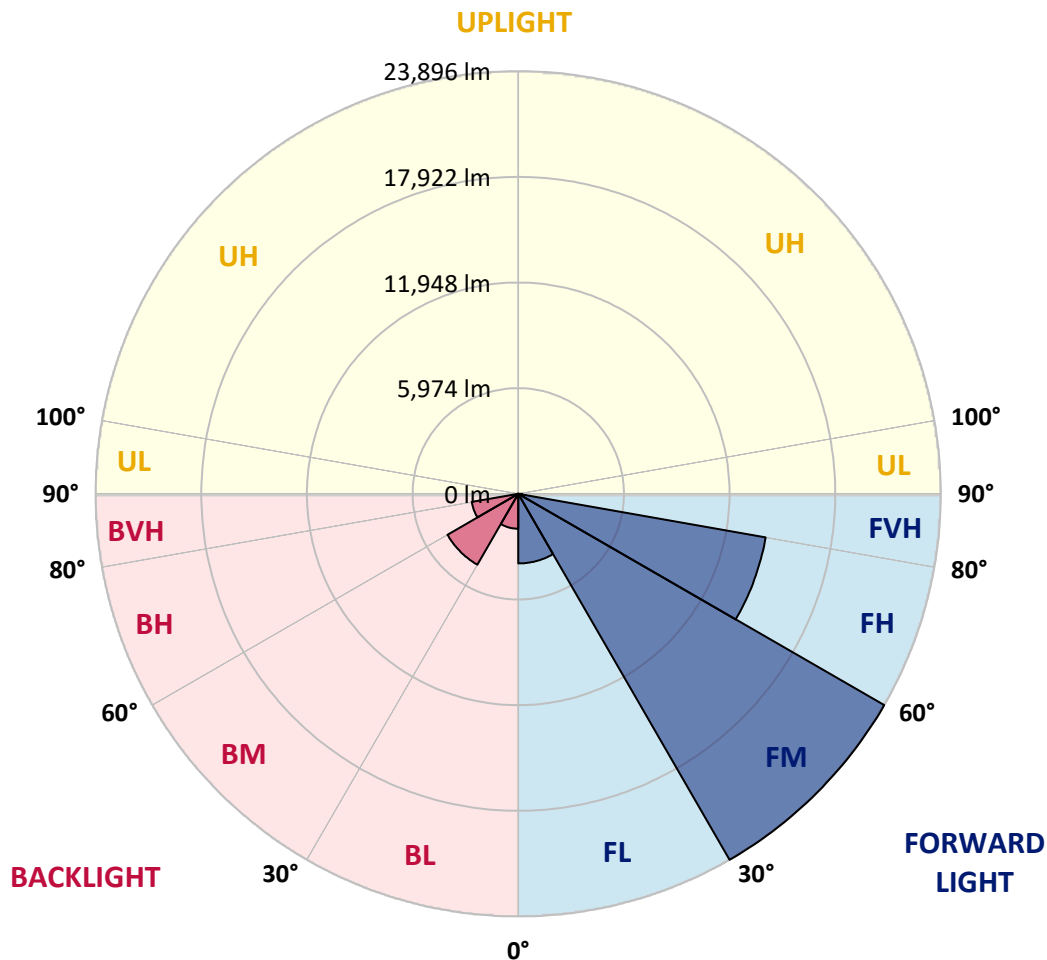


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3936.0	7.6			
FM (30°-60°)	23895.8	46.3			
FH (60°-80°)	14204.3	27.5			G5
FVH (80°-90°)	211.3	0.4			G2/225
BL (0°-30°)	1973.8	3.8	B3/2500		
BM (30°-60°)	4625.1	9.0	B3/5000		
BH (60°-80°)	2667.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	79.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2
2.5°	9033.8	9085.8	9056.1	9041.3	9015.2	8978.1	8948.4	8855.5	8758.9	8695.8
5°	9215.8	9267.8	9264.1	9279.0	9297.6	9308.7	9301.3	9197.3	9059.8	8952.1
7.5°	9059.8	9119.3	9167.5	9241.8	9371.8	9509.3	9576.1	9553.9	9412.7	9264.1
10°	8617.8	8680.9	8796.1	8970.7	9245.6	9542.7	9791.6	9906.7	9817.6	9654.2
12.5°	7808.0	7871.2	8097.8	8476.6	8937.2	9453.6	9929.0	10237.3	10259.6	10096.2
15°	6897.9	6961.1	7202.5	7678.0	8380.1	9208.4	10003.3	10586.5	10783.4	10642.2
17.5°	6333.3	6389.1	6571.1	6953.7	7685.4	8718.1	9977.3	10958.0	11407.4	11296.0
20°	6162.5	6210.8	6296.2	6563.6	7172.8	8209.2	9806.5	11307.1	12079.8	12016.6
22.5°	6344.5	6389.1	6415.1	6533.9	6916.5	7874.9	9591.0	11663.7	12859.8	12867.3
25°	6764.2	6808.8	6779.1	6853.4	7020.5	7770.9	9509.3	12083.5	13840.5	13922.2
27.5°	7455.1	7458.8	7388.3	7384.6	7410.6	7926.9	9594.7	12532.9	15077.4	15229.7
30°	8840.7	8784.9	8513.8	8220.3	8086.6	8394.9	9832.5	13064.1	16537.2	16808.4
32.5°	10976.5	10894.8	10397.1	9695.0	8989.2	9149.0	10259.6	13669.6	18127.1	18617.4
35°	13294.4	13272.1	12752.1	11708.3	10475.1	10222.5	10954.3	14464.5	19861.8	20641.8
37.5°	15448.9	15437.7	15140.6	13911.0	12410.4	11719.5	12068.6	15504.6	21719.1	22848.3
40°	17417.6	17451.0	17153.9	16054.4	14542.5	13639.9	13584.2	16789.8	23784.4	25251.6
42.5°	19118.9	19156.0	18855.1	18041.6	16648.7	15764.6	15445.2	18364.8	25801.4	27833.2
45°	20274.1	20504.4	20459.8	19809.8	18810.6	17893.1	17681.3	20341.0	28100.7	30570.9
47.5°	20601.0	20812.7	21147.0	21236.2	20627.0	19724.3	19976.9	22722.0	30426.0	33312.2
50°	19794.9	19991.8	20686.4	21611.3	22034.8	21756.2	22209.4	25273.9	32807.0	36046.1
52.5°	18205.1	18405.7	19282.3	20745.8	22473.1	23349.8	24449.3	27788.7	35113.8	38635.2
55°	15905.8	16117.5	17243.0	18899.7	21637.3	24007.2	26317.7	30299.7	37227.4	40964.2
57.5°	12778.1	12934.1	14104.2	16422.1	19534.9	23353.5	27695.8	33041.1	39218.4	43252.4
60°	8328.1	8465.5	9825.0	12410.4	16050.6	21169.3	27970.7	36098.1	41863.1	46227.8
62.5°	5538.4	5631.3	6437.3	8335.5	11303.4	16975.6	26362.3	38538.6	45741.2	51405.9
65°	3800.0	3892.9	4698.9	6021.3	7302.8	11229.1	21737.6	38215.4	49255.1	55517.9
67.5°	2711.6	2789.6	3473.1	4721.2	5285.8	6522.8	14735.7	34084.8	48750.0	55673.9
70°	1942.7	1987.3	2551.9	3677.4	4201.2	3918.9	8194.3	26068.8	42684.1	51409.6
72.5°	1359.5	1374.4	1771.8	2800.8	3384.0	2860.2	3900.3	17380.4	32283.3	40351.3
75°	921.2	939.8	1192.4	2054.2	2715.3	2184.2	2065.3	9319.8	18951.7	22335.7
77.5°	564.6	572.0	768.9	1404.1	2031.9	1664.1	1329.8	3948.6	7332.6	7198.8
80°	319.5	319.5	490.3	872.9	1385.5	1073.5	932.4	1679.0	2321.6	2039.3
82.5°	178.3	182.0	356.6	542.3	917.5	635.2	512.6	776.3	1002.9	887.8
85°	74.3	81.7	219.2	256.3	438.3	315.7	208.0	326.9	371.5	330.6
87.5°	7.4	11.1	66.9	48.3	52.0	63.1	29.7	63.1	52.0	52.0
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°
8547.2	0°	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2	8547.2
8673.5	2.5°	8602.9	8547.2	8406.1	8242.6	8027.2	7923.2	7782.0	7685.4	7603.7	7611.1
8889.0	5°	8770.1	8628.9	8313.2	7919.5	7429.1	7080.0	6708.5	6452.2	6244.2	6199.6
9186.1	7.5°	9000.4	8777.5	8224.0	7514.6	6686.2	6058.5	5497.6	5137.2	4880.9	4799.2
9546.4	10°	9297.6	8974.4	8108.9	7005.7	5813.3	5014.7	4412.9	4130.6	3956.0	3896.6
9969.9	12.5°	9643.0	9201.0	7956.6	6385.3	4914.4	4145.5	3762.9	3621.7	3566.0	3547.4
10489.9	15°	10077.6	9483.3	7726.3	5649.9	4152.9	3614.3	3450.8	3432.3	3439.7	3432.3
11114.0	17.5°	10593.9	9791.6	7351.1	4892.1	3640.3	3343.1	3283.7	3298.5	3317.1	3313.4
11812.3	20°	11158.6	10096.2	6871.9	4219.7	3291.1	3150.0	3116.5	3131.4	3146.2	3138.8
12618.4	22.5°	11801.2	10423.1	6340.8	3696.0	3057.1	2971.7	2934.5	2938.2	2938.2	2923.4
13639.9	25°	12570.1	10783.4	5783.6	3324.5	2878.8	2811.9	2767.4	2752.5	2730.2	2685.6
14880.5	27.5°	13487.6	11166.0	5248.7	3064.5	2737.6	2674.5	2622.5	2585.3	2529.6	2455.3
16370.1	30°	14520.2	11630.3	4795.5	2901.1	2626.2	2563.0	2503.6	2447.9	2366.2	2273.3
18082.5	32.5°	15734.9	12128.1	4464.9	2793.4	2525.9	2459.0	2388.5	2321.6	2232.5	2139.6
20006.6	35°	17183.6	12729.8	4271.7	2719.1	2447.9	2358.7	2280.7	2206.5	2139.6	2057.9
22097.9	37.5°	18754.8	13368.7	4212.3	2681.9	2395.9	2258.5	2169.3	2117.3	2109.9	2061.6
24360.1	40°	20474.7	14126.5	4256.9	2659.6	2340.2	2161.9	2065.3	2054.2	2072.7	1987.3
26778.3	42.5°	22294.8	15025.4	4331.2	2633.6	2262.2	2065.3	1972.4	1972.4	1957.6	1838.7
29333.9	45°	24263.5	16061.8	4405.5	2570.5	2169.3	1968.7	1898.1	1872.1	1809.0	1693.8
31904.4	47.5°	26247.1	17116.7	4461.2	2455.3	2057.9	1887.0	1823.9	1764.4	1671.6	1567.5
34426.6	50°	28130.4	18063.9	4401.8	2284.5	1931.6	1809.0	1742.1	1660.4	1560.1	1489.5
36815.1	52.5°	29813.1	18884.8	4149.2	2083.9	1797.8	1727.3	1667.8	1582.4	1500.7	1426.4
38969.5	55°	31276.6	19549.8	3703.4	1894.4	1679.0	1656.7	1597.3	1489.5	1378.1	1315.0
41105.4	57.5°	32680.7	20054.9	3146.2	1738.4	1571.3	1578.7	1489.5	1393.0	1289.0	1222.1
43984.2	60°	34549.2	20731.0	2581.6	1593.5	1456.1	1478.4	1381.8	1311.2	1181.2	1095.8
48920.8	62.5°	37535.7	21782.2	2050.4	1415.2	1322.4	1329.8	1289.0	1203.5	1047.5	947.2
52579.7	65°	39905.6	21395.9	1615.8	1222.1	1170.1	1181.2	1181.2	1088.4	921.2	806.1
52776.5	67.5°	39638.1	18320.2	1289.0	1032.6	1025.2	1032.6	1058.7	980.6	817.2	724.3
48757.4	70°	36514.2	14572.2	1032.6	858.1	891.5	872.9	947.2	895.2	735.5	642.6
37799.4	72.5°	29794.5	10497.4	787.5	709.5	683.5	713.2	854.3	806.1	612.9	508.9
20021.5	75°	17410.2	5601.6	586.9	560.9	494.0	594.3	757.8	687.2	468.0	375.2
6136.5	77.5°	5668.4	1953.9	430.9	412.3	367.7	479.2	646.3	579.5	382.6	297.2
1797.8	80°	1519.3	590.6	293.5	271.2	237.7	356.6	512.6	460.6	274.9	193.2
772.6	82.5°	609.2	248.9	170.9	152.3	130.0	245.2	404.9	371.5	204.3	122.6
241.4	85°	196.9	81.7	63.1	48.3	59.4	152.3	241.4	252.6	144.9	63.1
37.1	87.5°	26.0	11.1	11.1	14.9	11.1	26.0	74.3	70.6	40.9	7.4
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°
8547.2
7536.9
6099.3
4717.5
3852.0
3536.3
3428.5
3306.0
3135.1
2915.9
2678.2
2447.9
2265.9
2143.3
2050.4
2057.9
1991.0
1838.7
1690.1
1563.8
1478.4
1419.0
1307.5
1214.7
1084.7
939.8
794.9
709.5
631.5
497.8
364.0
286.0
189.4
122.6
48.3
0.0
0.0

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