

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: P850386

Luminaire Tested: **GLAN-SB7D-840-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63769 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

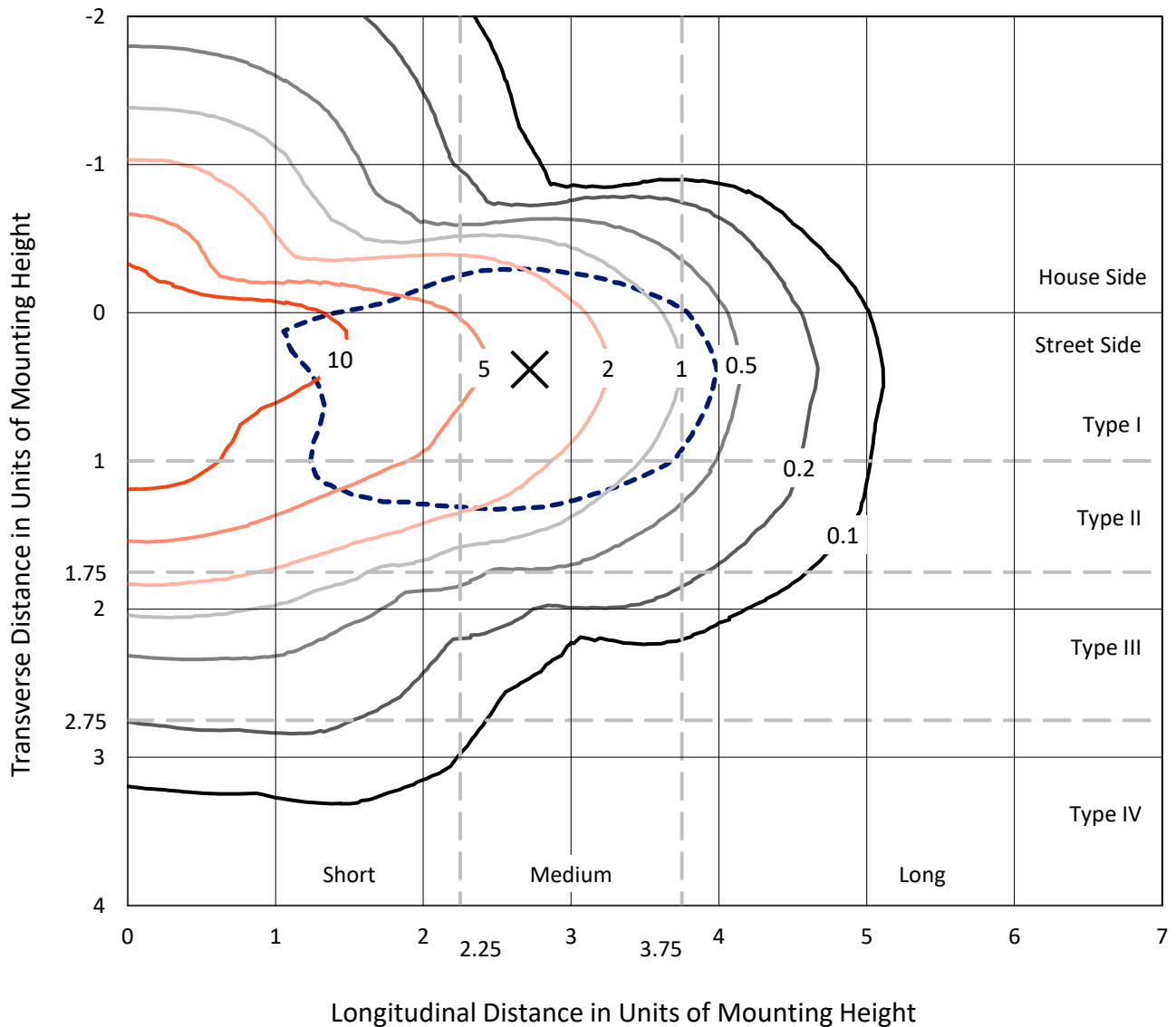
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

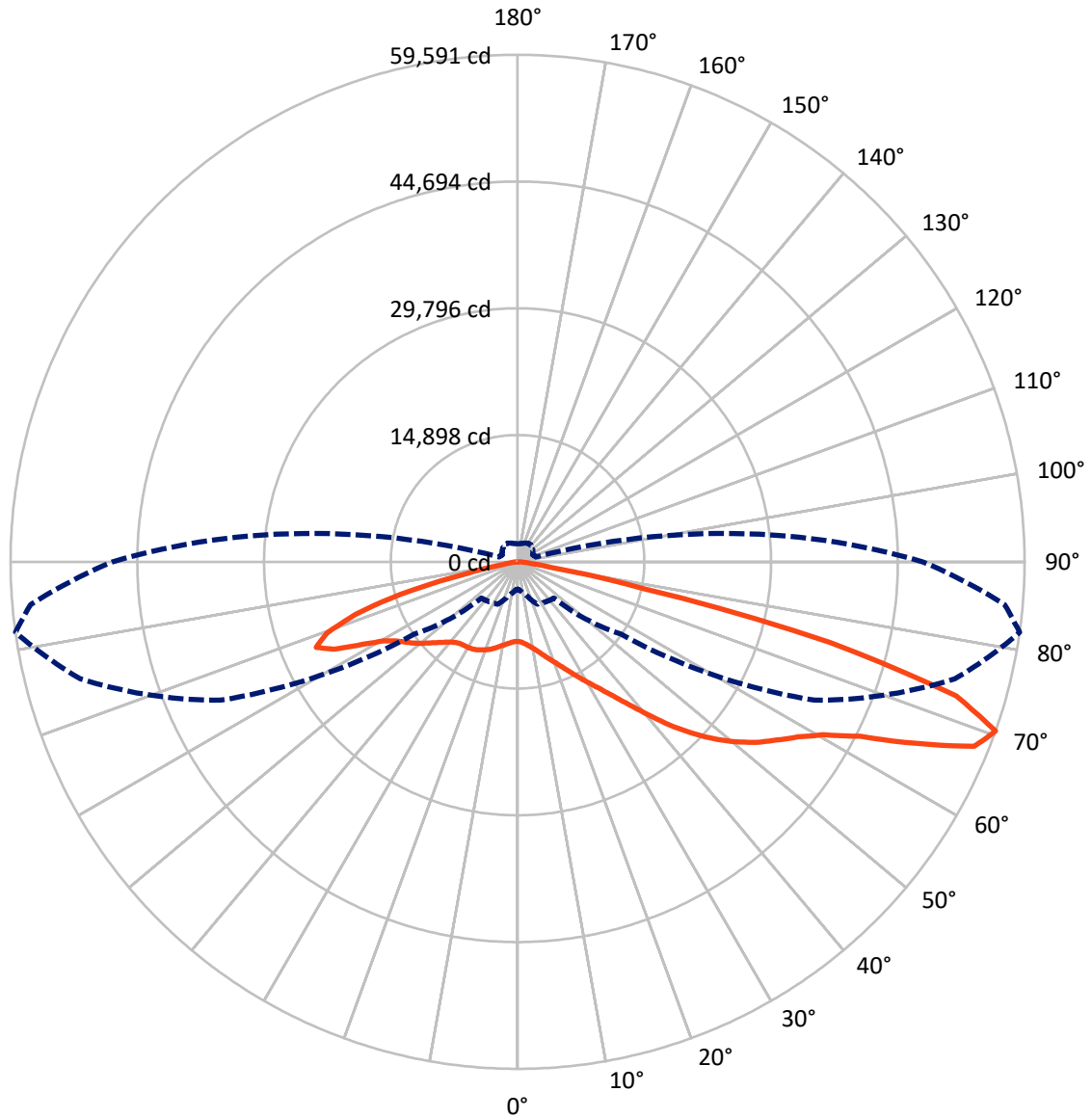
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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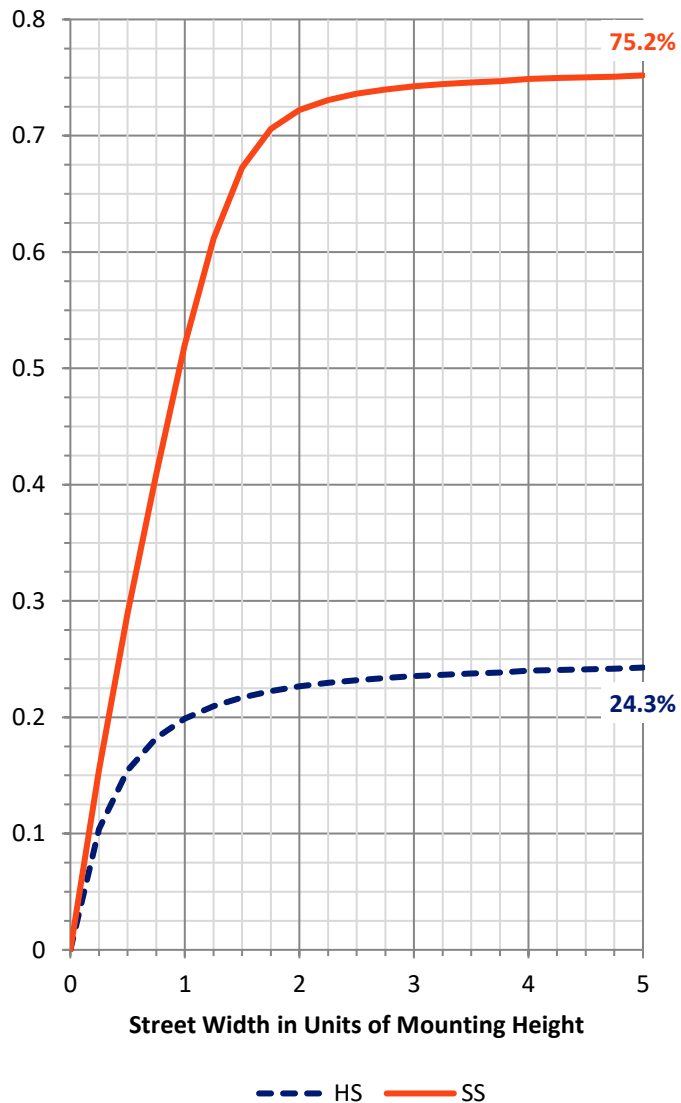
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15720.6	0.0	15720.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	48048.4	0.0	48048.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	63769.0	0.0	63769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.7	1.4
10°-20°	2536.2	4.0
20°-30°	4242.8	6.7
30°-40°	6628.3	10.4
40°-50°	10556.3	16.6
50°-60°	14690.4	23.0
60°-70°	15366.8	24.1
70°-80°	8031.5	12.6
80°-90°	834.0	1.3
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°	63769.0	100.0
0°-180°	63769.0	100.0

Coefficient of Utilization



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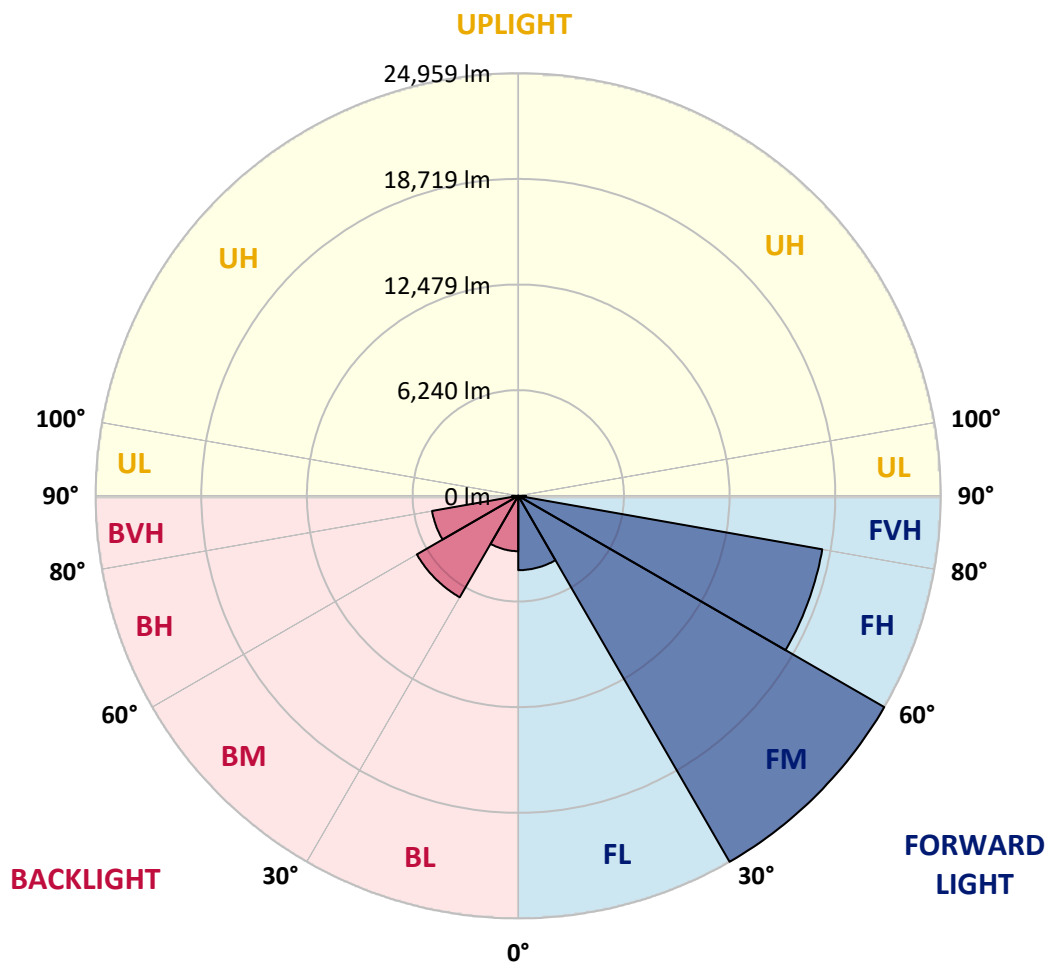
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4391.2	6.9			
FM (30°-60°)	24958.5	39.1			
FH (60°-80°)	18231.8	28.6			G5
FVH (80°-90°)	466.9	0.7			G3/500
BL (0°-30°)	3270.5	5.1	B4/5000		
BM (30°-60°)	6916.5	10.8	B4/8500		
BH (60°-80°)	5166.6	8.1	B5		G5
BVH (80°-90°)	367.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3
2.5°	9572.7	9626.8	9609.9	9593.0	9593.0	9569.3	9565.9	9532.1	9505.0	9461.0
5°	9694.5	9752.0	9745.2	9758.8	9802.8	9812.9	9823.1	9802.8	9748.6	9694.5
7.5°	9586.2	9650.5	9670.8	9752.0	9887.4	10009.2	10100.5	10137.7	10087.0	10009.2
10°	9220.7	9291.8	9362.9	9555.7	9796.0	10083.6	10327.2	10472.7	10462.6	10388.1
12.5°	8479.7	8554.1	8706.4	9082.0	9521.9	10029.5	10482.9	10787.4	10892.3	10838.2
15°	7887.5	7951.8	8066.9	8452.6	9024.5	9796.0	10540.4	11132.6	11399.9	11369.4
17.5°	7870.6	7897.7	7968.8	8151.5	8591.4	9430.5	10479.5	11471.0	11981.9	11978.5
20°	8168.4	8178.6	8219.2	8256.4	8506.8	9153.1	10323.9	11751.8	12635.0	12635.0
22.5°	8581.2	8574.5	8615.1	8581.2	8703.0	9129.4	10225.7	11998.8	13362.5	13416.6
25°	9200.4	9166.6	9156.5	9078.6	9102.3	9349.3	10334.0	12279.7	14225.3	14337.0
27.5°	10026.1	9971.9	9934.7	9755.4	9694.5	9802.8	10665.6	12618.0	15186.3	15379.2
30°	11102.1	11004.0	10949.9	10638.5	10418.6	10435.5	11166.4	13068.1	16191.3	16502.6
32.5°	12570.7	12418.4	12272.9	11762.0	11359.3	11227.3	11812.7	13690.7	17280.9	17778.3
35°	14215.2	14093.4	13937.7	13149.3	12530.1	12225.5	12685.7	14560.3	18556.5	19345.0
37.5°	15798.8	15693.9	15768.3	14705.8	13907.3	13464.0	13829.4	15727.7	20130.0	21294.0
40°	17436.5	17355.3	17365.5	16350.3	15419.8	14922.4	15216.8	17192.9	21933.5	23611.9
42.5°	19216.4	19155.5	18952.4	18052.4	17006.8	16543.2	16813.9	18884.8	23869.1	26251.2
45°	21209.4	21172.2	20982.7	19950.7	18752.8	18231.7	18597.2	20752.6	25814.7	28734.9
47.5°	22931.8	22962.2	22938.5	22068.9	20827.1	20062.3	20498.8	22701.7	27625.0	31069.7
50°	23760.8	23919.8	24153.3	23882.6	23111.1	22332.8	22417.4	24583.0	29350.7	33259.0
52.5°	23327.7	23628.8	24265.0	24698.1	24995.8	24833.4	24606.7	26450.9	30975.0	35235.1
55°	21713.6	22136.6	23192.3	24237.9	25757.2	26938.1	27235.9	28521.7	32558.6	36974.4
57.5°	18773.1	19460.0	20407.5	22522.3	25080.4	27956.6	30301.6	31394.5	34236.9	38832.0
60°	13731.3	14651.7	15829.2	18976.1	22711.8	27411.9	32910.5	35807.0	36622.4	41237.9
62.5°	8787.6	9356.1	10438.9	13403.1	17697.1	24620.2	33709.0	41322.5	40666.0	45183.4
65°	6016.3	6381.8	7373.2	9038.0	11440.5	18326.5	31570.5	45457.5	47088.4	51436.6
67.5°	4371.8	4649.3	5495.2	6953.6	7454.4	10845.0	24498.4	45268.0	53331.5	57879.2
70°	3187.5	3383.8	4094.4	5495.2	5735.5	6033.2	14841.2	38480.1	53196.1	59591.4
72.5°	2361.9	2497.2	2974.3	4263.5	4642.5	4074.0	7346.1	27966.8	45711.2	53899.9
75°	1708.8	1810.3	2162.2	3261.9	3715.4	3102.9	3664.6	16343.6	31885.2	37915.0
77.5°	1306.1	1384.0	1614.1	2388.9	2974.3	2328.0	2273.9	7518.7	15118.6	15193.1
80°	1049.0	1099.7	1224.9	1681.7	2280.7	1742.6	1482.1	3035.2	4777.9	4043.6
82.5°	771.5	856.1	1035.4	1180.9	1631.0	1201.2	903.5	1532.8	1817.1	1563.3
85°	439.9	497.4	626.0	845.9	1042.2	734.3	517.7	680.1	845.9	693.7
87.5°	155.7	203.0	219.9	331.6	453.4	304.5	199.6	196.3	277.5	206.4
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°
9349.3	0°	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3	9349.3
9450.8	2.5°	9417.0	9400.1	9332.4	9241.1	9146.3	9054.9	9024.5	8960.2	8916.2	8892.5
9670.8	5°	9606.5	9552.4	9393.3	9190.3	8977.1	8747.0	8584.6	8435.7	8327.4	8225.9
9971.9	7.5°	9877.2	9782.5	9508.4	9153.1	8774.1	8391.7	8107.5	7890.9	7745.4	7650.7
10323.9	10°	10191.9	10046.4	9626.8	9095.6	8510.2	7962.0	7627.0	7440.9	7349.5	7298.8
10726.5	12.5°	10554.0	10347.5	9748.6	8963.6	8107.5	7481.5	7251.4	7197.3	7200.6	7204.0
11234.1	15°	11000.6	10713.0	9846.7	8676.0	7583.0	7112.7	7072.1	7160.0	7251.4	7295.4
11809.3	17.5°	11504.8	11098.7	9863.7	8202.2	7068.7	6875.8	7004.4	7193.9	7332.6	7393.5
12452.2	20°	12046.2	11491.3	9741.8	7532.3	6645.7	6682.9	6913.0	7156.7	7308.9	7386.8
13186.5	22.5°	12665.4	11910.8	9450.8	6828.4	6300.6	6473.1	6743.8	6980.7	7139.7	7217.6
14049.4	25°	13372.6	12381.2	8994.0	6236.3	6002.8	6236.3	6507.0	6703.2	6831.8	6902.9
15013.7	27.5°	14157.7	12871.8	8385.0	5765.9	5742.2	5992.6	6216.0	6368.2	6435.9	6490.1
16039.0	30°	14946.1	13318.5	7647.3	5410.6	5515.5	5752.4	5911.4	5979.1	5999.4	6009.6
17182.7	32.5°	15798.8	13704.2	6872.4	5116.2	5299.0	5518.9	5613.7	5644.1	5549.4	5485.1
18570.1	35°	16830.8	14117.1	6114.5	4882.8	5085.8	5275.3	5305.7	5278.7	5167.0	5035.0
20309.3	37.5°	18106.5	14631.4	5508.8	4717.0	4886.2	5011.4	4974.1	4967.4	4977.5	4821.9
22400.5	40°	19669.8	15301.4	5065.5	4588.4	4723.7	4750.8	4645.9	4703.4	4754.2	4517.3
24694.7	42.5°	21405.7	16110.1	4784.6	4500.4	4588.4	4524.1	4361.7	4426.0	4419.2	4107.9
26999.0	45°	23175.4	16989.9	4686.5	4436.1	4463.2	4334.6	4155.3	4172.2	4030.1	3749.2
29208.6	47.5°	24934.9	17933.9	4747.4	4382.0	4307.5	4162.0	4023.3	3948.8	3739.1	3529.3
31326.9	50°	26660.7	18925.4	4970.7	4273.7	4094.4	4009.8	3908.2	3776.3	3552.9	3373.6
33330.0	52.5°	28261.2	19923.6	5221.1	4094.4	3827.0	3877.8	3813.5	3661.2	3441.3	3258.6
35225.0	55°	29777.1	20921.8	5319.3	3847.3	3576.6	3762.7	3725.5	3444.7	3180.7	3031.9
37207.8	57.5°	31428.4	22123.0	5211.0	3532.6	3373.6	3630.8	3488.7	3177.4	3025.1	2913.4
39789.7	60°	33715.8	24007.8	4977.5	3143.5	3180.7	3434.5	3190.9	3062.3	2896.5	2771.3
43660.7	62.5°	37515.8	27523.5	4601.9	2757.8	2954.0	3143.5	3048.8	2920.2	2751.0	2629.2
50279.3	65°	43132.8	32409.7	3894.7	2456.6	2700.2	2859.3	2896.5	2767.9	2592.0	2463.4
56079.1	67.5°	47870.1	35475.4	2947.3	2206.2	2439.7	2629.2	2734.1	2608.9	2422.8	2297.6
57436.0	70°	47609.5	33248.8	2250.2	1959.2	2209.6	2402.5	2537.8	2439.7	2240.1	2121.6
52170.8	72.5°	42286.9	27814.5	1820.5	1708.8	1976.1	2165.6	2328.0	2253.6	2050.6	1935.5
38219.6	75°	31066.3	19744.2	1455.0	1455.0	1685.1	1918.6	2097.9	2050.6	1864.5	1783.2
16045.8	77.5°	13095.2	8283.4	1140.3	1208.0	1400.9	1647.9	1871.2	1888.1	1725.7	1827.2
4243.2	80°	3481.9	2284.0	869.6	950.8	1099.7	1360.3	1627.6	1620.8	1444.9	1350.1
1576.8	82.5°	1326.4	900.1	619.2	670.0	795.2	1042.2	1289.2	1329.8	1153.9	998.2
619.2	85°	510.9	385.7	382.4	402.7	463.6	690.3	974.5	1008.4	869.6	737.7
172.6	87.5°	132.0	115.0	142.1	135.4	213.2	368.8	558.3	578.6	531.3	307.9
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>
9349.3
8919.6
8266.5
7671.0
7312.3
7210.8
7292.0
7407.1
7407.1
7237.9
6923.2
6510.4
6033.2
5505.4
5041.8
4832.0
4524.1
4104.5
3759.4
3529.3
3360.1
3261.9
3018.3
2903.3
2764.5
2629.2
2470.1
2301.0
2131.8
1935.5
1759.6
1658.0
1255.4
998.2
761.3
439.9
0.0

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