

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: P849885

Luminaire Tested: **GLAN-SB7A-850-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849885
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-SB7A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA 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: 20002 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

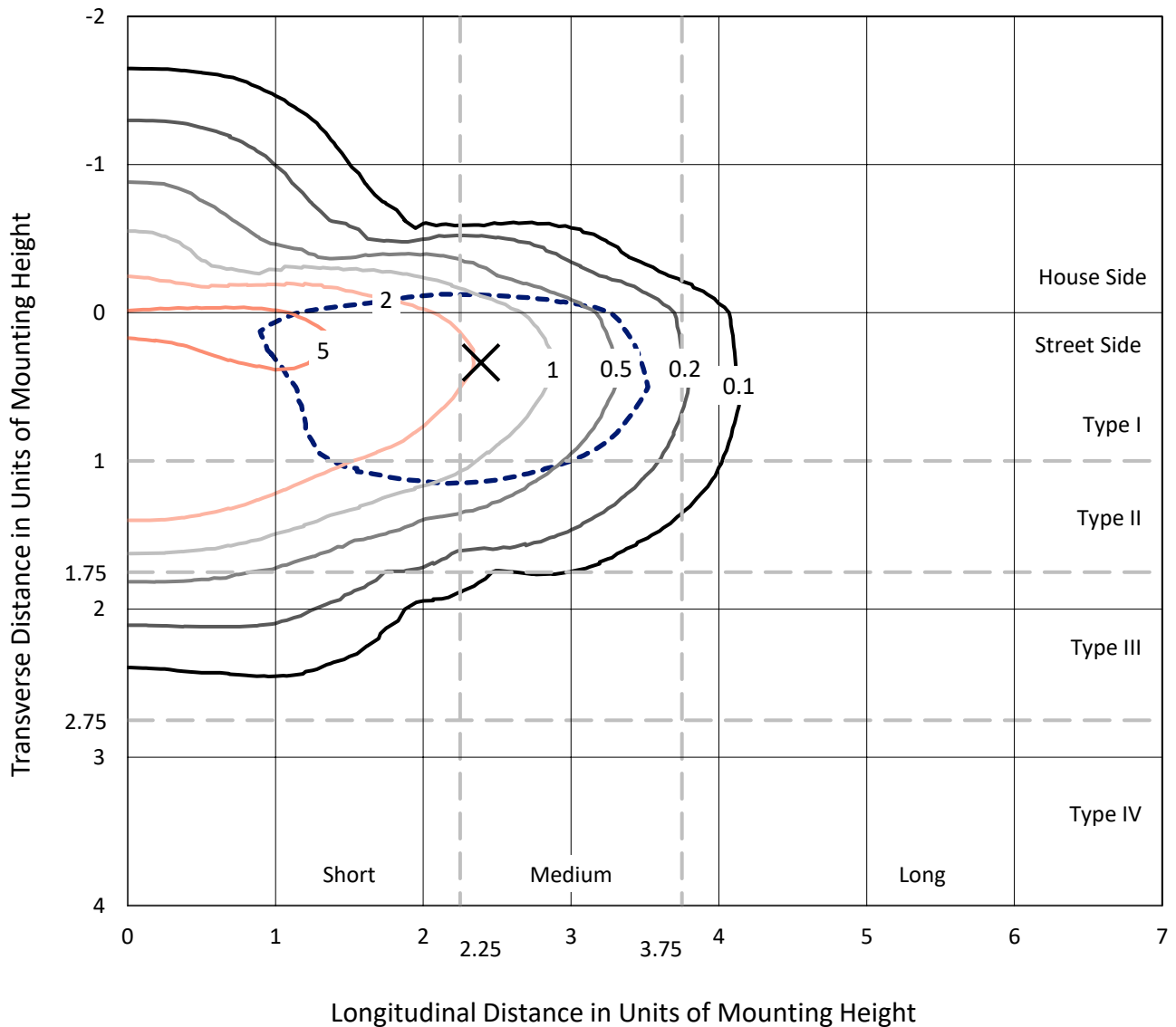
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

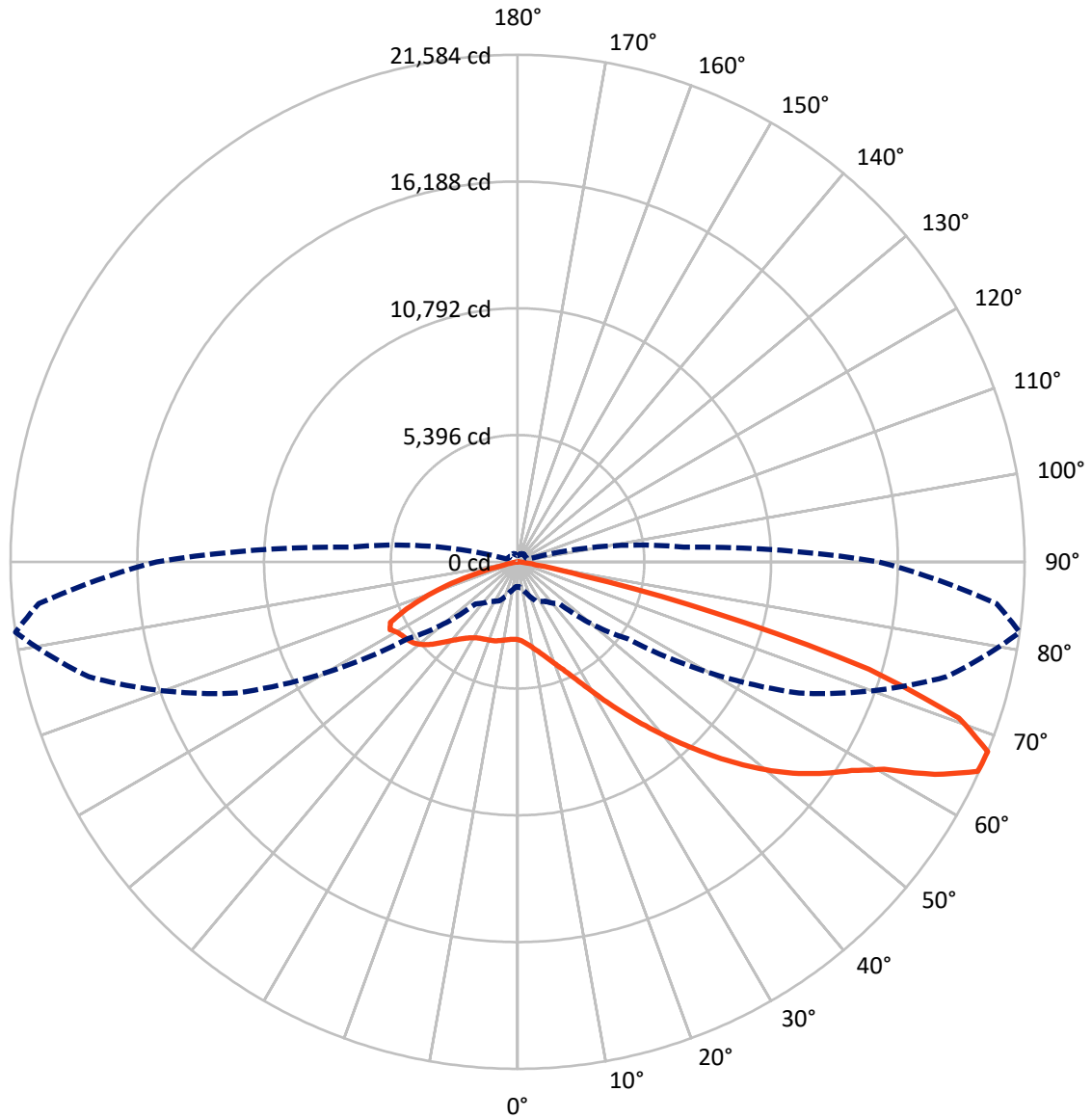
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3623.2	0.0	3623.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16378.8	0.0	16378.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	20002.0	0.0	20002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.5
10°-20°	767.2	3.8
20°-30°	1228.8	6.1
30°-40°	2172.8	10.9
40°-50°	3807.0	19.0
50°-60°	5077.4	25.4
60°-70°	4726.8	23.6
70°-80°	1814.2	9.1
80°-90°	112.7	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°	20002.0	100.0
0°-180°	20002.0	100.0

Coefficient of Utilization

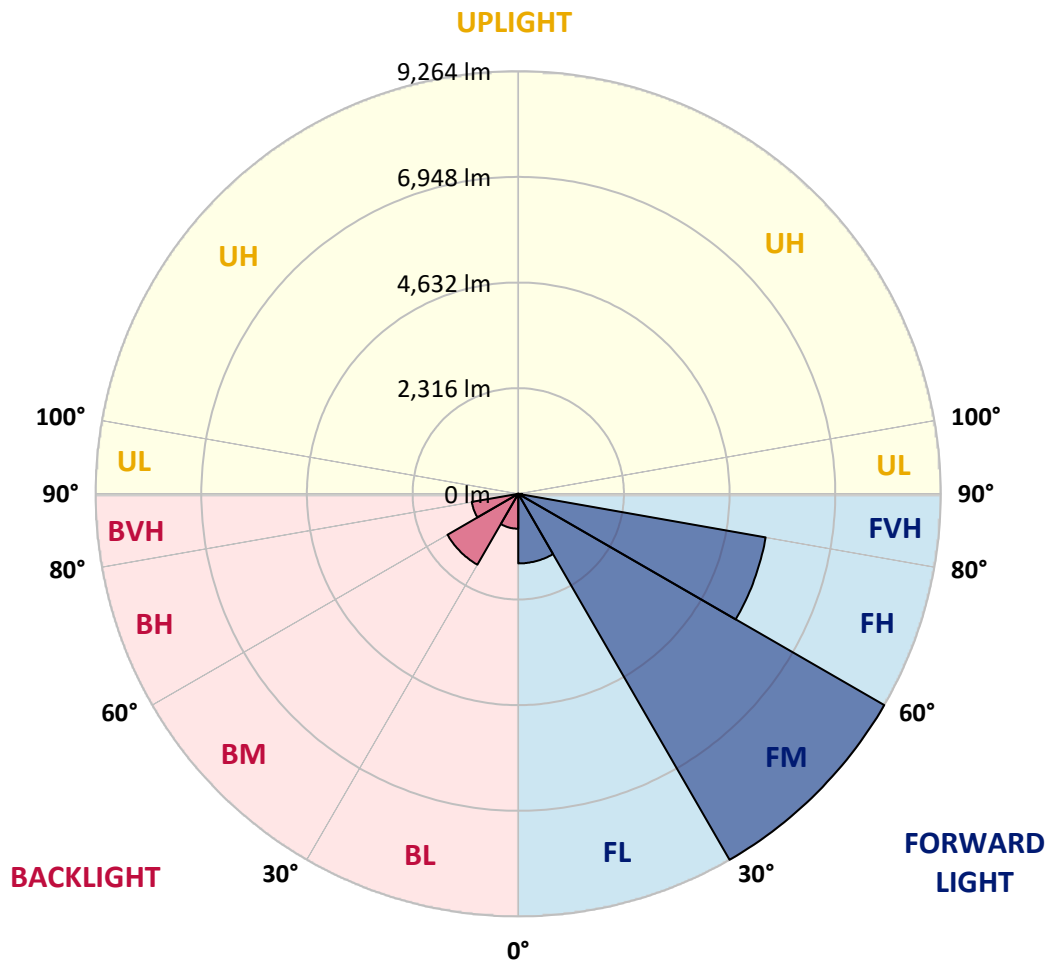


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.9	7.6			
FM (30°-60°)	9264.1	46.3			
FH (60°-80°)	5506.9	27.5			G3/7500
FVH (80°-90°)	81.9	0.4			G1/100
BL (0°-30°)	765.2	3.8	B2/1000		
BM (30°-60°)	1793.1	9.0	B2/2500		
BH (60°-80°)	1034.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.8	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7
2.5°	3502.3	3522.5	3510.9	3505.2	3495.1	3480.7	3469.2	3433.2	3395.7	3371.3
5°	3572.9	3593.0	3591.6	3597.4	3604.6	3608.9	3606.0	3565.7	3512.4	3470.6
7.5°	3512.4	3535.4	3554.2	3583.0	3633.4	3686.6	3712.6	3703.9	3649.2	3591.6
10°	3341.0	3365.5	3410.1	3477.8	3584.4	3699.6	3796.1	3840.7	3806.2	3742.8
12.5°	3027.1	3051.6	3139.4	3286.3	3464.9	3665.0	3849.4	3968.9	3977.5	3914.2
15°	2674.3	2698.7	2792.3	2976.7	3248.9	3570.0	3878.2	4104.3	4180.6	4125.9
17.5°	2455.4	2477.0	2547.5	2695.9	2979.6	3379.9	3868.1	4248.3	4422.5	4379.3
20°	2389.1	2407.8	2441.0	2544.6	2780.8	3182.6	3801.8	4383.6	4683.2	4658.7
22.5°	2459.7	2477.0	2487.0	2533.1	2681.5	3053.0	3718.3	4521.9	4985.6	4988.5
25°	2622.4	2639.7	2628.2	2657.0	2721.8	3012.7	3686.6	4684.6	5365.8	5397.5
27.5°	2890.3	2891.7	2864.3	2862.9	2873.0	3073.2	3719.8	4858.9	5845.3	5904.4
30°	3427.4	3405.8	3300.7	3186.9	3135.1	3254.6	3811.9	5064.8	6411.3	6516.4
32.5°	4255.5	4223.8	4030.8	3758.6	3485.0	3546.9	3977.5	5299.5	7027.7	7217.7
35°	5154.1	5145.5	4943.8	4539.2	4061.1	3963.1	4246.8	5607.7	7700.2	8002.6
37.5°	5989.3	5985.0	5869.8	5393.1	4811.4	4543.5	4678.9	6010.9	8420.2	8858.0
40°	6752.6	6765.6	6650.4	6224.1	5638.0	5288.0	5266.4	6509.2	9220.9	9789.8
42.5°	7412.2	7426.6	7309.9	6994.5	6454.5	6111.8	5987.9	7119.8	10002.9	10790.6
45°	7860.0	7949.3	7932.0	7680.0	7292.6	6936.9	6854.8	7886.0	10894.3	11852.0
47.5°	7986.8	8068.8	8198.5	8233.0	7996.8	7646.9	7744.8	8809.1	11795.8	12914.8
50°	7674.3	7750.6	8019.9	8378.5	8542.6	8434.6	8610.3	9798.4	12718.9	13974.7
52.5°	7057.9	7135.7	7475.5	8042.9	8712.6	9052.4	9478.7	10773.3	13613.2	14978.4
55°	6166.5	6248.6	6684.9	7327.2	8388.5	9307.3	10203.1	11746.8	14432.6	15881.3
57.5°	4953.9	5014.4	5468.0	6366.7	7573.5	9053.9	10737.3	12809.6	15204.5	16768.4
60°	3228.7	3282.0	3809.0	4811.4	6222.6	8207.1	10843.9	13994.8	16229.9	17922.0
62.5°	2147.2	2183.2	2495.7	3231.6	4382.2	6581.2	10220.3	14941.0	17733.3	19929.5
65°	1473.2	1509.2	1821.7	2334.4	2831.2	4353.4	8427.4	14815.7	19095.6	21523.6
67.5°	1051.3	1081.5	1346.5	1830.4	2049.3	2528.8	5712.8	13214.3	18899.8	21584.1
70°	753.2	770.4	989.3	1425.7	1628.7	1519.3	3176.8	10106.6	16548.1	19930.9
72.5°	527.1	532.8	686.9	1085.8	1311.9	1108.9	1512.1	6738.2	12515.9	15643.7
75°	357.1	364.3	462.3	796.4	1052.7	846.8	800.7	3613.2	7347.4	8659.3
77.5°	218.9	221.8	298.1	544.4	787.7	645.2	515.6	1530.8	2842.7	2790.9
80°	123.8	123.8	190.1	338.4	537.2	416.2	361.5	650.9	900.1	790.6
82.5°	69.1	70.6	138.2	210.3	355.7	246.3	198.7	301.0	388.8	344.2
85°	28.8	31.7	85.0	99.4	169.9	122.4	80.6	126.7	144.0	128.2
87.5°	2.9	4.3	25.9	18.7	20.2	24.5	11.5	24.5	20.2	20.2
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°
3313.7	0°	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7	3313.7
3362.6	2.5°	3335.3	3313.7	3258.9	3195.6	3112.0	3071.7	3017.0	2979.6	2947.9	2950.8
3446.1	5°	3400.1	3345.3	3222.9	3070.3	2880.2	2744.8	2600.8	2501.4	2420.8	2403.5
3561.4	7.5°	3489.3	3402.9	3188.4	2913.3	2592.2	2348.8	2131.3	1991.6	1892.3	1860.6
3701.0	10°	3604.6	3479.3	3143.7	2716.0	2253.7	1944.1	1710.8	1601.4	1533.7	1510.7
3865.2	12.5°	3738.5	3567.1	3084.7	2475.5	1905.2	1607.1	1458.8	1404.1	1382.5	1375.3
4066.8	15°	3907.0	3676.6	2995.4	2190.4	1610.0	1401.2	1337.8	1330.6	1333.5	1330.6
4308.8	17.5°	4107.1	3796.1	2849.9	1896.6	1411.3	1296.1	1273.0	1278.8	1286.0	1284.6
4579.5	20°	4326.0	3914.2	2664.2	1635.9	1275.9	1221.2	1208.2	1214.0	1219.8	1216.9
4892.0	22.5°	4575.2	4040.9	2458.2	1432.9	1185.2	1152.1	1137.7	1139.1	1139.1	1133.4
5288.0	25°	4873.3	4180.6	2242.2	1288.9	1116.1	1090.2	1072.9	1067.1	1058.5	1041.2
5769.0	27.5°	5229.0	4328.9	2034.9	1188.1	1061.3	1036.9	1016.7	1002.3	980.7	951.9
6346.5	30°	5629.3	4508.9	1859.2	1124.7	1018.1	993.7	970.6	949.0	917.3	881.3
7010.4	32.5°	6100.2	4701.9	1731.0	1083.0	979.3	953.3	926.0	900.1	865.5	829.5
7756.3	35°	6661.9	4935.2	1656.1	1054.1	949.0	914.5	884.2	855.4	829.5	797.8
8567.1	37.5°	7271.0	5182.9	1633.1	1039.7	928.9	875.6	841.0	820.9	818.0	799.3
9444.1	40°	7937.8	5476.7	1650.3	1031.1	907.3	838.1	800.7	796.4	803.6	770.4
10381.6	42.5°	8643.4	5825.2	1679.1	1021.0	877.0	800.7	764.7	764.7	758.9	712.8
11372.4	45°	9406.7	6227.0	1708.0	996.5	841.0	763.2	735.9	725.8	701.3	656.7
12369.0	47.5°	10175.7	6635.9	1729.6	951.9	797.8	731.6	707.1	684.0	648.0	607.7
13346.8	50°	10905.8	7003.2	1706.5	885.7	748.8	701.3	675.4	643.7	604.8	577.5
14272.8	52.5°	11558.2	7321.4	1608.6	807.9	697.0	669.6	646.6	613.5	581.8	553.0
15108.0	55°	12125.6	7579.2	1435.8	734.4	650.9	642.3	619.2	577.5	534.3	509.8
15936.1	57.5°	12669.9	7775.1	1219.8	674.0	609.2	612.0	577.5	540.0	499.7	473.8
17052.1	60°	13394.3	8037.2	1000.9	617.8	564.5	573.2	535.7	508.4	457.9	424.8
18966.0	62.5°	14552.1	8444.7	794.9	548.7	512.7	515.6	499.7	466.6	406.1	367.2
20384.5	65°	15470.9	8294.9	626.4	473.8	453.6	457.9	457.9	421.9	357.1	312.5
20460.8	67.5°	15367.2	7102.5	499.7	400.3	397.5	400.3	410.4	380.2	316.8	280.8
18902.7	70°	14156.1	5649.5	400.3	332.7	345.6	338.4	367.2	347.1	285.1	249.1
14654.4	72.5°	11551.0	4069.7	305.3	275.1	265.0	276.5	331.2	312.5	237.6	197.3
7762.1	75°	6749.7	2171.7	227.5	217.5	191.5	230.4	293.8	266.4	181.5	145.4
2379.0	77.5°	2197.6	757.5	167.1	159.9	142.6	185.8	250.6	224.7	148.3	115.2
697.0	80°	589.0	229.0	113.8	105.1	92.2	138.2	198.7	178.6	106.6	74.9
299.5	82.5°	236.2	96.5	66.2	59.0	50.4	95.0	157.0	144.0	79.2	47.5
93.6	85°	76.3	31.7	24.5	18.7	23.0	59.0	93.6	97.9	56.2	24.5
14.4	87.5°	10.1	4.3	4.3	5.8	4.3	10.1	28.8	27.4	15.8	2.9
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°
3313.7
2921.9
2364.6
1828.9
1493.4
1371.0
1329.2
1281.7
1215.4
1130.5
1038.3
949.0
878.5
830.9
794.9
797.8
771.9
712.8
655.2
606.3
573.2
550.1
506.9
470.9
420.5
364.3
308.2
275.1
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193.0
141.1
110.9
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