

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: P477720

Luminaire Tested: **IFLD-L-SA8C-730-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477720
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

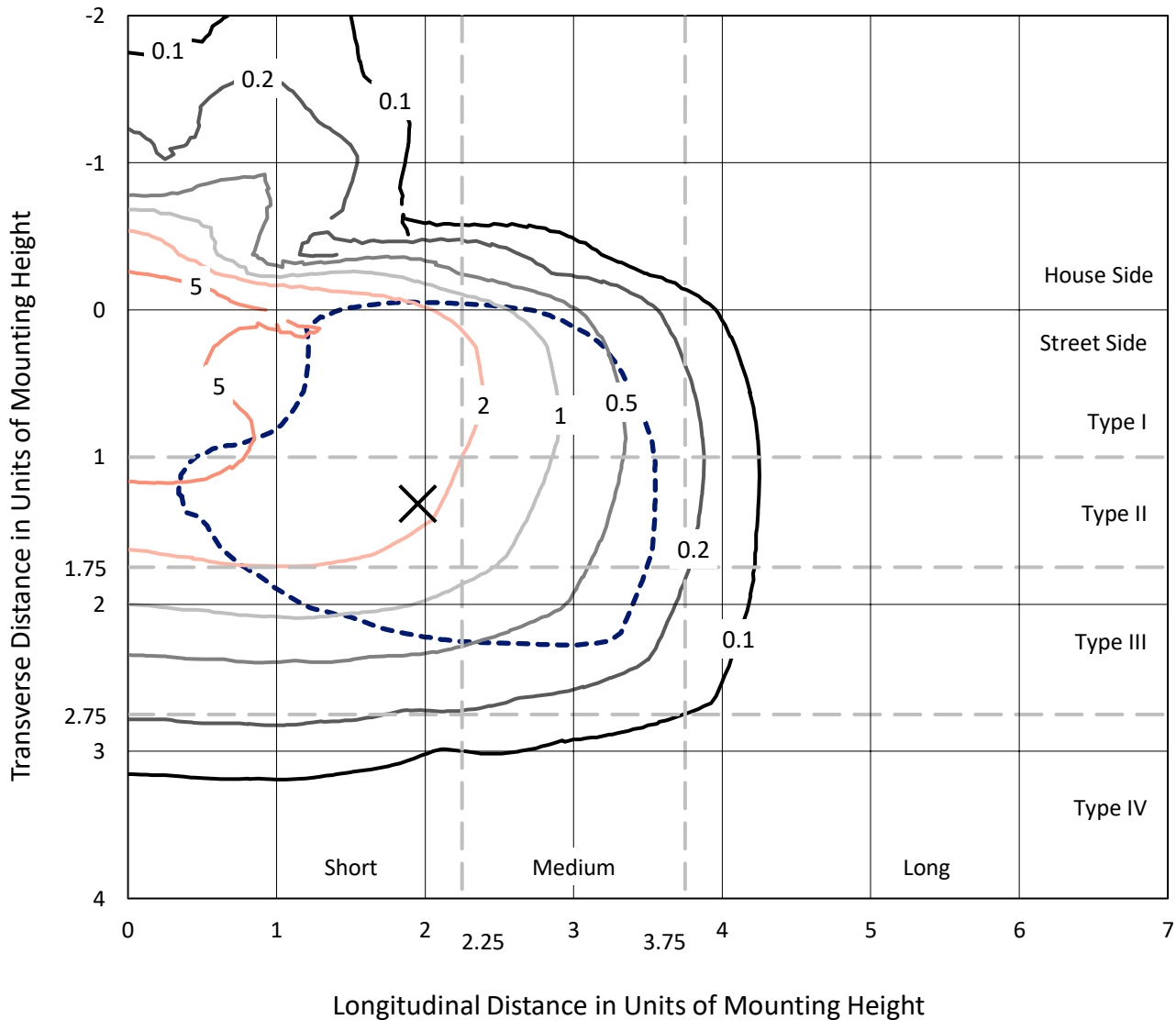
Lumens per Lamp: N/A
Luminaire Lumens: 45317.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
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

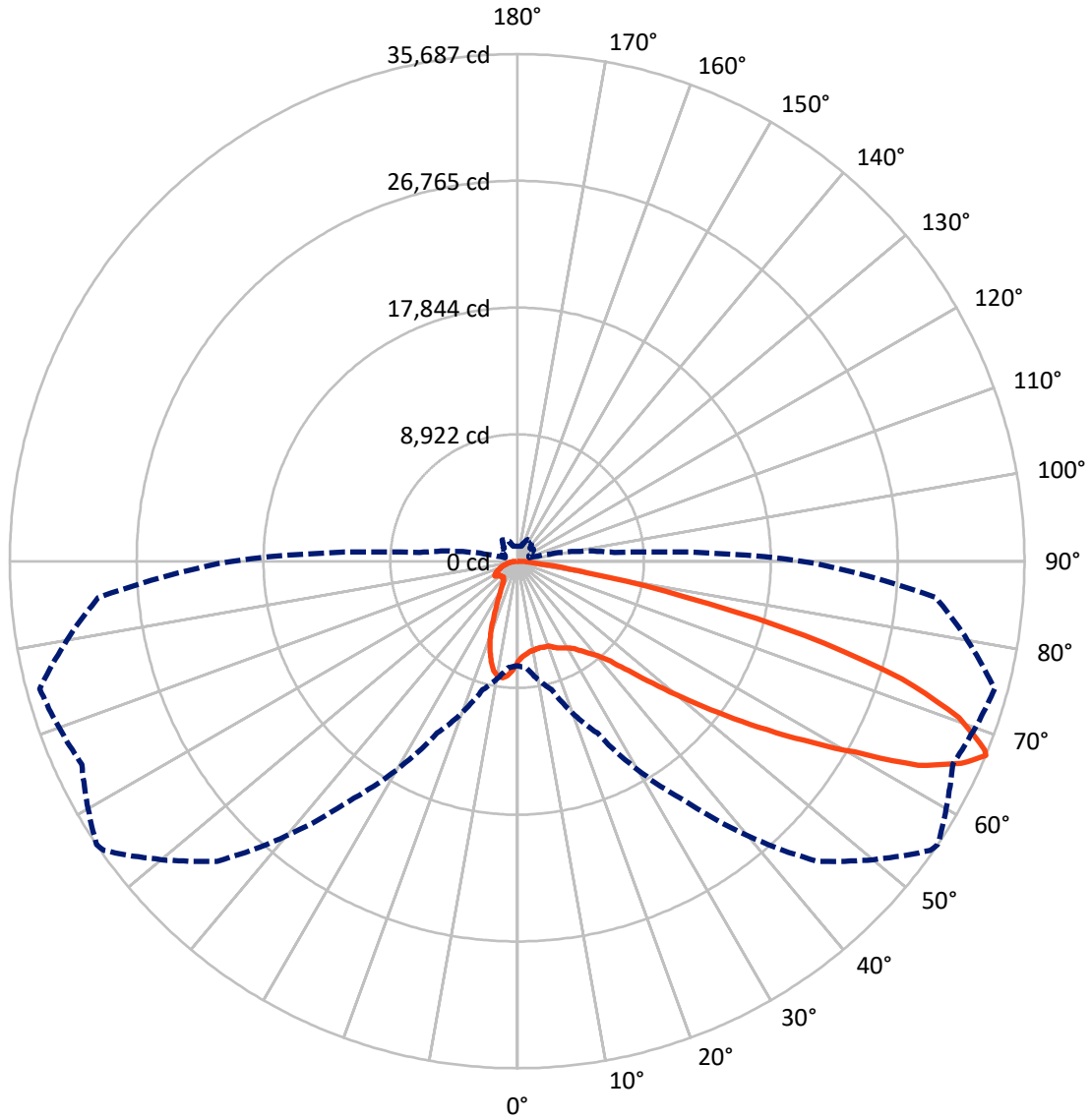
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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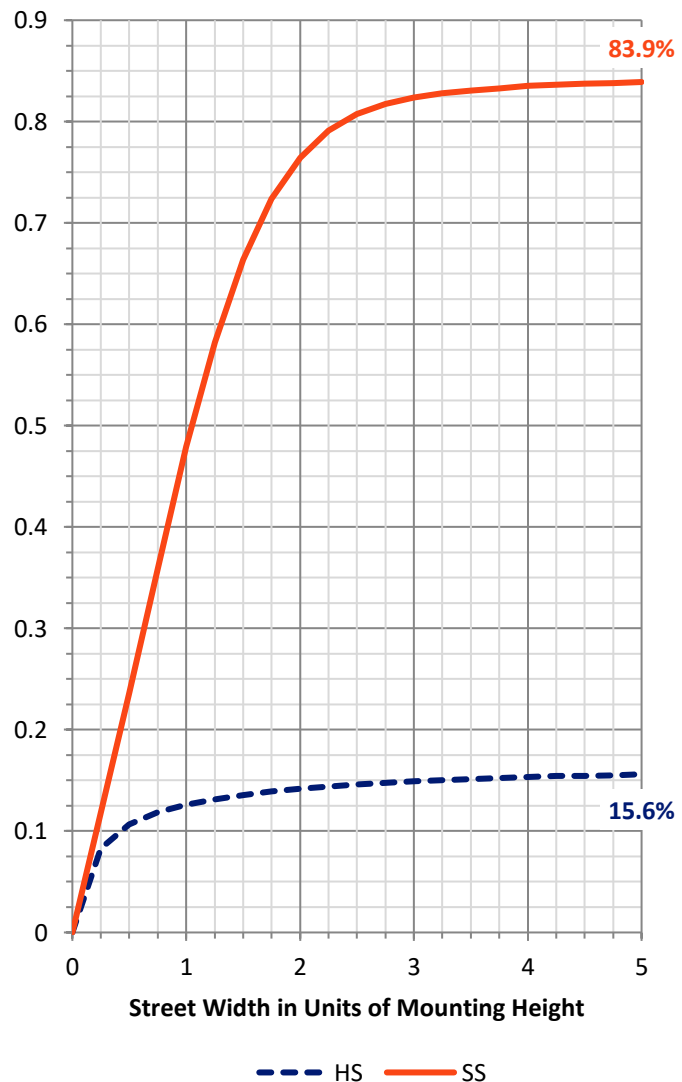
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7174.3	0.0	7174.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	38143.6	0.0	38143.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	45317.9	0.0	45317.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	1.5
10°-20°	1853.2	4.1
20°-30°	2906.4	6.4
30°-40°	4149.0	9.2
40°-50°	6262.0	13.8
50°-60°	9968.0	22.0
60°-70°	12743.3	28.1
70°-80°	6213.2	13.7
80°-90°	543.5	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°	45317.9	100.0
0°-180°	45317.9	100.0

Coefficient of Utilization

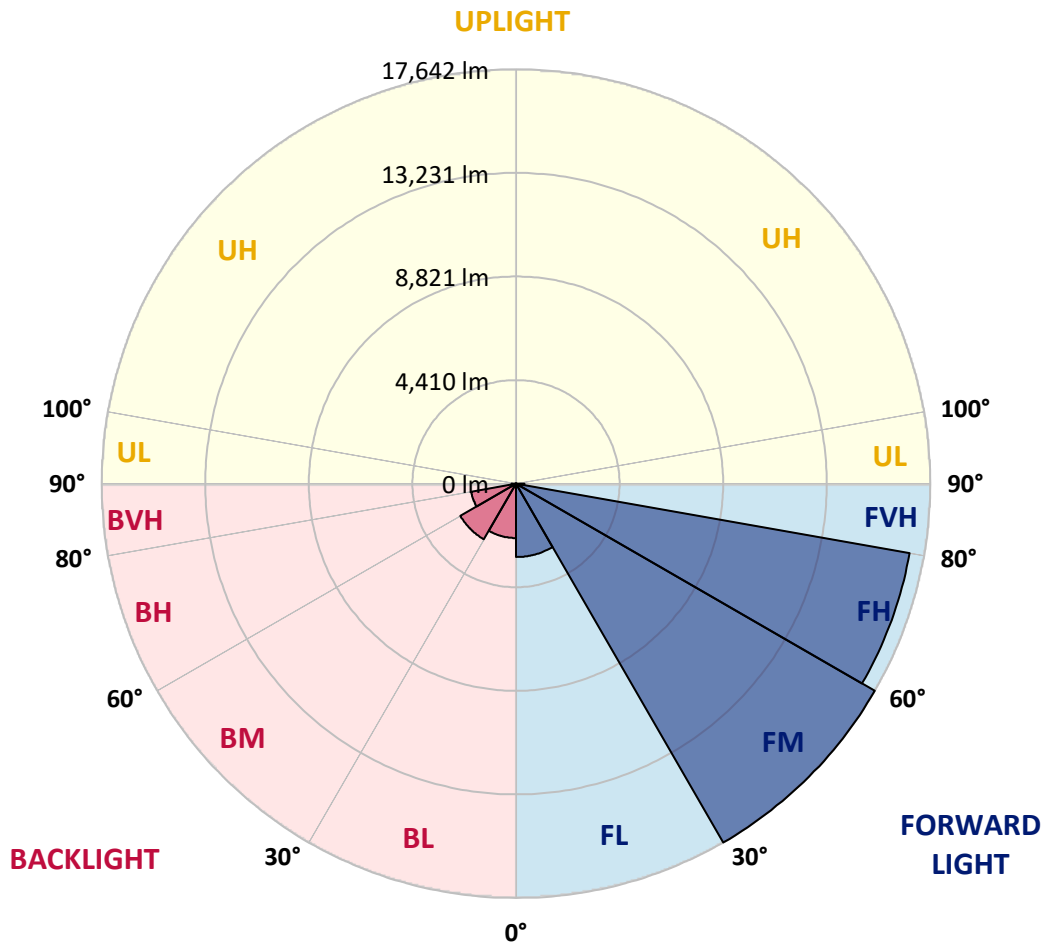


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3122.9	6.9			
FM (30°-60°)	17641.9	38.9			
FH (60°-80°)	17017.9	37.6			G5
FVH (80°-90°)	361.0	0.8			G3/500
BL (0°-30°)	2316.1	5.1	B3/2500		
BM (30°-60°)	2737.1	6.0	B3/5000		
BH (60°-80°)	1938.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	182.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3
2.5°	6477.5	6450.9	6482.8	6450.9	6594.4	6679.4	6705.9	6743.1	6876.0	7003.5
5°	6206.5	6089.6	6217.1	6259.6	6270.2	6413.7	6562.5	6589.0	6658.1	6865.4
7.5°	5754.8	5887.6	5839.8	5967.3	6100.2	6243.7	6488.1	6419.0	6674.1	6870.7
10°	5659.1	5669.8	5722.9	5770.7	5887.6	6073.6	6413.7	6371.2	6631.6	7051.3
12.5°	5754.8	5754.8	5738.8	5701.7	5834.5	6015.2	6286.2	6307.4	6716.6	7104.5
15°	6089.6	6153.3	5983.3	6009.8	5956.7	6015.2	6254.3	6302.1	6748.5	7147.0
17.5°	6907.9	6886.6	6684.7	6403.1	6169.3	6132.1	6296.8	6349.9	6716.6	7269.2
20°	7704.9	7662.4	7311.7	7019.5	6557.2	6339.3	6365.9	6371.2	6769.7	7348.9
22.5°	8592.3	8703.9	8321.3	7726.2	7152.3	6610.3	6504.0	6589.0	6891.9	7391.4
25°	9984.5	9745.4	9416.0	8634.8	7710.2	7030.1	6732.5	6775.0	7008.8	7497.7
27.5°	10988.8	10893.2	10377.7	9745.4	8491.4	7359.5	6854.7	6934.4	7221.4	7492.4
30°	11955.9	11955.9	11642.4	10696.6	9315.0	7912.2	7115.1	7077.9	7120.4	7481.8
32.5°	13087.8	12933.7	12482.0	11855.0	10351.2	8417.0	7322.3	7333.0	7333.0	7678.4
35°	13682.9	13932.6	13629.8	12609.5	11142.9	9256.5	7821.8	7742.1	7683.7	7896.2
37.5°	14554.4	14703.1	14384.3	13783.9	12126.0	9936.7	8262.9	8199.1	7859.0	8066.3
40°	15080.4	15053.8	15043.2	14766.9	13427.8	10739.1	8911.2	8746.4	8289.4	8666.7
42.5°	15378.0	15324.8	15978.4	15808.4	14655.3	11918.7	9724.2	9633.8	9129.0	9734.8
45°	15712.8	16106.0	16642.7	17120.9	16084.7	13576.6	11100.4	10972.9	10521.2	11291.7
47.5°	16005.0	16488.6	17174.0	17684.2	17376.0	15378.0	12800.8	12832.7	12535.1	13326.9
50°	16493.9	16541.7	17471.6	18502.5	18741.6	17041.2	15085.7	15032.6	14899.7	16010.3
52.5°	16345.1	16488.6	17662.9	18980.7	19373.9	18800.0	17540.7	17700.1	17524.7	18922.3
55°	13922.0	14352.4	17546.0	19485.5	20872.4	20787.4	20697.0	20590.8	20580.1	22195.5
57.5°	12822.1	13172.8	15457.7	20043.5	22477.2	23104.2	23688.7	23805.6	23800.3	25750.4
60°	12099.4	12460.7	14612.8	19740.6	23842.8	26138.3	27259.5	27275.5	27243.6	29549.8
62.5°	10685.9	11036.7	13151.5	18082.7	24220.1	28938.7	31436.1	31643.4	30182.1	32823.0
65°	8985.5	9272.5	11137.6	15548.0	23215.8	30718.8	34576.6	34332.1	32658.3	34693.5
67°	7348.9	7540.2	9357.5	13348.1	20590.8	29863.3	35485.2	35687.1	33800.7	34773.2
67.5°	6881.3	7056.7	8773.0	12598.9	19591.8	29215.0	35517.1	35485.2	33822.0	34789.1
70°	4777.1	4851.5	5978.0	8666.7	14432.1	24682.4	32924.0	32998.4	32403.2	32902.7
72.5°	3167.0	3278.6	3995.9	5462.5	8507.3	17960.5	27519.9	28317.0	27939.7	26977.9
75°	2040.5	2104.2	2614.4	3252.0	4187.2	10229.0	20330.4	20861.8	19995.6	16685.2
77.5°	1142.5	1211.5	1578.2	1976.7	2040.5	4256.3	11419.2	12078.1	10234.3	7088.5
80°	712.0	802.4	1190.3	1174.3	972.4	1562.2	4708.0	5042.7	4091.6	2439.0
82.5°	536.7	605.8	919.3	823.6	547.3	696.1	1764.2	1891.7	1498.5	940.5
85°	366.6	462.3	664.2	510.1	286.9	334.8	701.4	754.6	685.5	457.0
87.5°	132.8	196.6	345.4	255.1	127.5	101.0	228.5	255.1	244.4	207.2
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°
7051.3	0°	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3	7051.3
7115.1	2.5°	7216.1	7290.5	7327.7	7545.5	7635.9	7619.9	7641.2	7673.1	7704.9	7747.4
7205.4	5°	7274.5	7503.0	7625.2	7880.3	8050.3	7975.9	8071.6	8045.0	8007.8	8002.5
7370.2	7.5°	7465.8	7758.1	8124.7	8193.8	8268.2	8082.2	7922.8	7704.9	7651.8	7465.8
7508.3	10°	7805.9	8045.0	8491.4	8517.9	8188.5	7710.2	7354.2	6902.6	6897.2	6626.2
7720.9	12.5°	8130.0	8401.0	8762.4	8608.3	7821.8	7168.2	6589.0	6094.9	5887.6	5749.5
7848.4	15°	8332.0	8778.3	8969.6	8305.4	7178.9	6296.8	5547.6	5016.2	4803.6	4702.7
8007.8	17.5°	8517.9	9139.6	9054.6	7774.0	6387.1	5398.8	4506.1	4043.8	3985.3	3910.9
8262.9	20°	8773.0	9272.5	8751.7	7083.2	5489.1	4240.4	3671.8	3448.6	3501.8	3533.6
8289.4	22.5°	9012.1	9341.6	8369.2	6328.7	4336.0	3358.3	3076.7	3124.5	3204.2	3310.5
8353.2	25°	9118.4	9453.2	7853.7	5287.2	3299.8	2826.9	2763.1	2842.9	2975.7	2981.0
8443.5	27.5°	9187.5	9373.5	7232.0	4272.3	2609.1	2470.9	2566.5	2625.0	2640.9	2704.7
8634.8	30°	9309.7	9208.7	6445.6	3055.4	2189.3	2194.6	2316.8	2316.8	2316.8	2364.6
8826.1	32.5°	9522.2	9097.1	5526.3	2231.8	1886.4	2056.4	2024.5	2013.9	1992.7	1934.2
9070.6	35°	9655.1	8794.3	4362.6	1652.6	1695.1	1886.4	1875.8	1711.0	1434.7	1296.6
9692.3	37.5°	9931.4	8640.2	3209.5	1275.3	1583.5	1801.4	1742.9	1344.4	1041.5	908.7
10462.8	40°	10526.5	8539.2	2221.1	1115.9	1509.1	1758.9	1556.9	1147.8	797.1	563.3
11653.0	42.5°	11254.5	8544.5	1509.1	1052.1	1514.4	1849.2	1498.5	983.0	563.3	451.7
13241.9	45°	12232.2	8464.8	1036.2	1052.1	1610.1	1998.0	1535.7	892.7	547.3	573.9
15234.5	47.5°	13284.4	8533.9	770.5	956.5	1626.0	2003.3	1402.8	876.8	526.1	664.2
17402.5	50°	14511.8	8603.0	637.6	882.1	1631.3	1939.5	1291.2	855.5	547.3	701.4
19889.4	52.5°	15776.5	8820.8	542.0	834.3	1695.1	1912.9	1291.2	887.4	547.3	611.1
23056.4	55°	17662.9	9378.8	781.1	1041.5	1928.9	2088.3	1588.8	1243.4	765.2	786.4
26090.5	57.5°	19745.9	9952.6	871.5	1094.6	1982.0	1881.1	1711.0	1370.9	807.7	813.0
28449.8	60°	21116.8	9973.9	866.1	1068.1	1854.5	1626.0	1673.8	1445.3	823.6	696.1
29911.1	62.5°	21664.1	9325.6	903.3	1068.1	1727.0	1519.7	1716.3	1556.9	850.2	871.5
30325.6	65°	21042.4	7986.6	871.5	956.5	1519.7	1360.3	1727.0	1578.2	929.9	876.8
29581.6	67°	20070.0	6881.3	887.4	908.7	1413.5	1291.2	1817.3	1657.9	1078.7	1052.1
29193.7	67.5°	19793.7	6589.0	882.1	882.1	1376.3	1270.0	1838.6	1657.9	1099.9	1089.3
25766.4	70°	17445.0	5340.3	903.3	871.5	1216.8	1206.2	1955.5	1748.2	1264.7	1275.3
18927.6	72.5°	13279.1	4049.1	898.0	871.5	1057.4	1153.1	1971.4	1806.7	1376.3	1275.3
10600.9	75°	7545.5	2423.1	791.7	759.9	834.3	1004.3	1843.9	1721.7	1339.1	1142.5
4235.1	77.5°	3119.2	1248.7	728.0	685.5	690.8	818.3	1535.7	1604.8	1275.3	972.4
1413.5	80°	1163.7	749.2	584.5	547.3	531.4	600.5	1094.6	1280.6	1089.3	797.1
621.7	82.5°	605.8	467.6	398.5	398.5	361.3	382.6	589.8	850.2	823.6	547.3
249.7	85°	308.2	265.7	228.5	223.2	201.9	180.7	297.6	504.8	472.9	302.9
111.6	87.5°	164.7	148.8	95.6	90.3	74.4	47.8	53.1	101.0	164.7	132.8
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°
7051.3
7790.0
8050.3
7529.6
6615.6
5717.6
4681.4
3948.1
3496.4
3252.0
3034.2
2763.1
2417.8
1902.3
1360.3
903.3
547.3
441.0
584.5
738.6
813.0
627.0
828.9
786.4
717.4
882.1
860.8
1036.2
1068.1
1179.7
1131.8
1020.2
919.3
728.0
430.4
249.7
95.6
0.0

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