

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: P477634

Luminaire Tested: **IFLD-M-SA4E-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477634
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

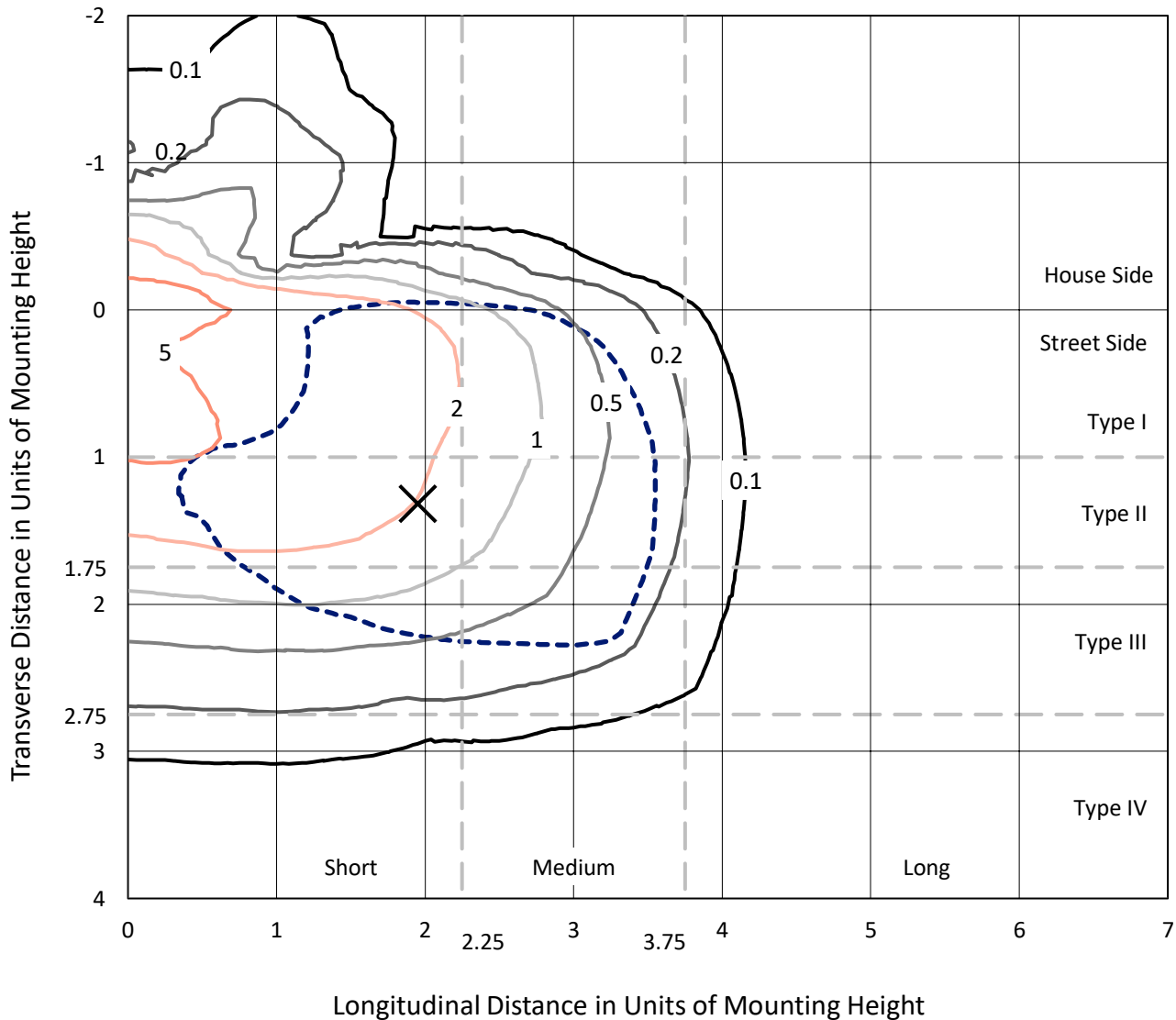
Lumens per Lamp: N/A
Luminaire Lumens: 26196.2 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (A_{in}): 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

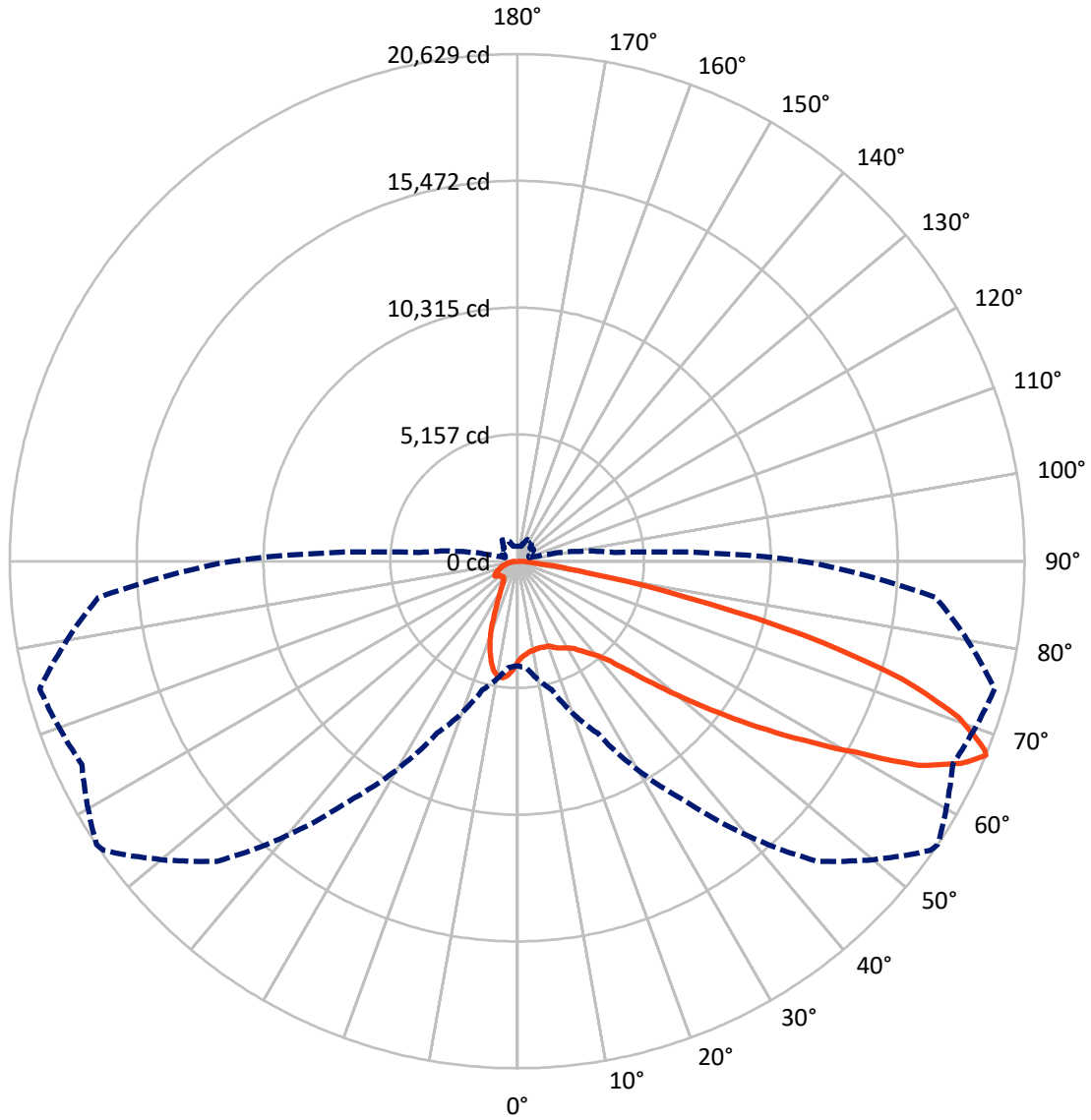
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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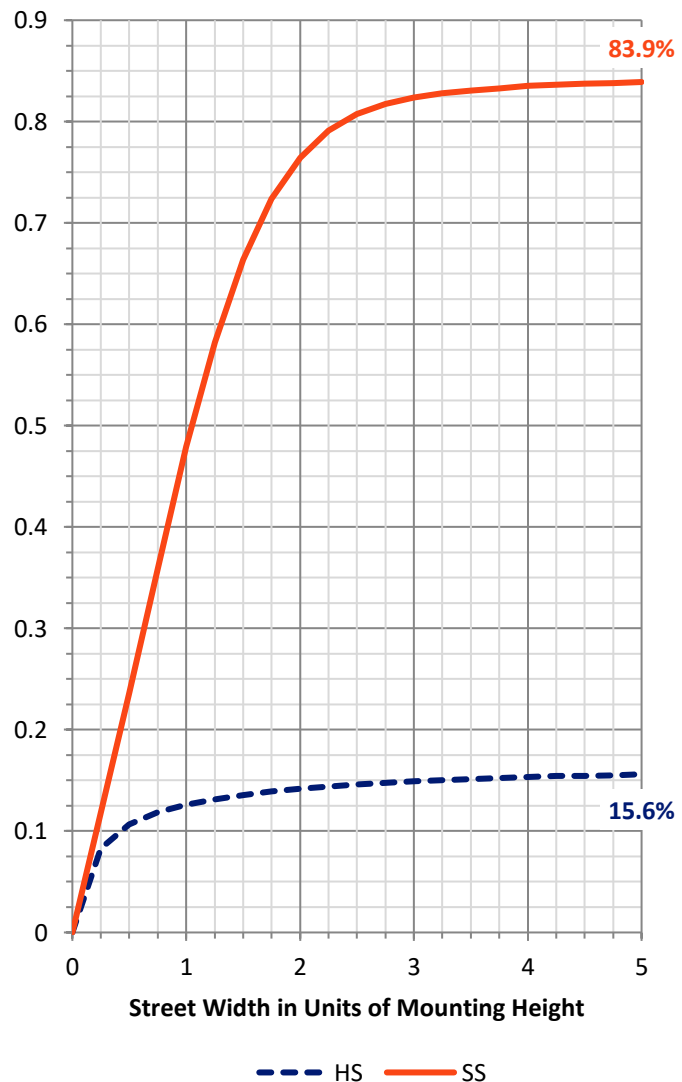
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4147.1	0.0	4147.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22049.1	0.0	22049.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	26196.2	0.0	26196.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.5
10°-20°	1071.3	4.1
20°-30°	1680.1	6.4
30°-40°	2398.3	9.2
40°-50°	3619.8	13.8
50°-60°	5762.0	22.0
60°-70°	7366.3	28.1
70°-80°	3591.6	13.7
80°-90°	314.2	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°	26196.2	100.0
0°-180°	26196.2	100.0

Coefficient of Utilization

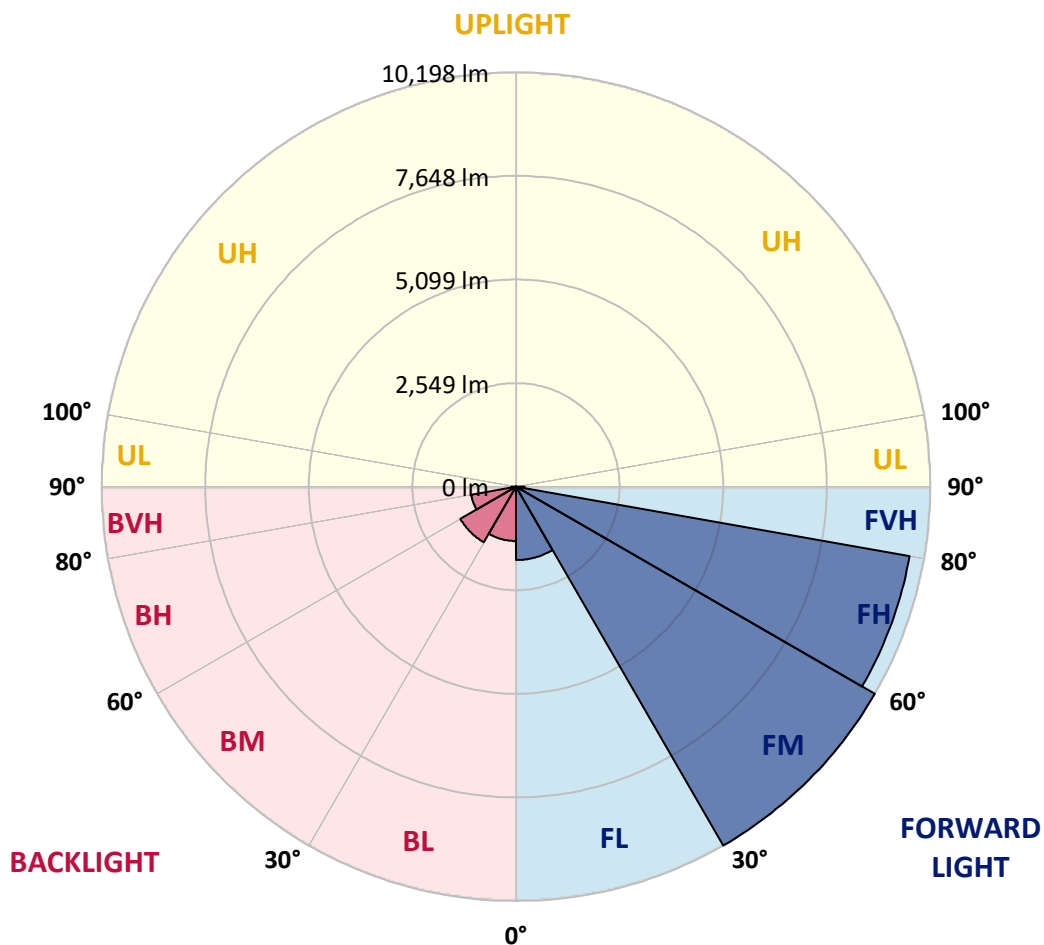


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.2	6.9			
FM (30°-60°)	10197.9	38.9			
FH (60°-80°)	9837.2	37.6			G4/12000
FVH (80°-90°)	208.7	0.8			G2/225
BL (0°-30°)	1338.8	5.1	B3/2500		
BM (30°-60°)	1582.2	6.0	B2/2500		
BH (60°-80°)	1120.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	105.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1
2.5°	3744.3	3729.0	3747.4	3729.0	3811.9	3861.0	3876.4	3897.9	3974.7	4048.4
5°	3587.7	3520.1	3593.8	3618.4	3624.5	3707.5	3793.5	3808.8	3848.8	3968.6
7.5°	3326.6	3403.4	3375.7	3449.4	3526.2	3609.2	3750.5	3710.5	3858.0	3971.6
10°	3271.3	3277.4	3308.1	3335.8	3403.4	3510.9	3707.5	3682.9	3833.4	4076.1
12.5°	3326.6	3326.6	3317.4	3295.9	3372.7	3477.1	3633.7	3646.0	3882.5	4106.8
15°	3520.1	3557.0	3458.7	3474.0	3443.3	3477.1	3615.3	3643.0	3901.0	4131.3
17.5°	3993.1	3980.8	3864.1	3701.3	3566.2	3544.7	3639.9	3670.6	3882.5	4202.0
20°	4453.9	4429.3	4226.6	4057.6	3790.4	3664.5	3679.8	3682.9	3913.3	4248.1
22.5°	4966.8	5031.3	4810.2	4466.2	4134.4	3821.1	3759.7	3808.8	3983.9	4272.6
25°	5771.6	5633.4	5442.9	4991.4	4456.9	4063.8	3891.8	3916.3	4051.5	4334.1
27.5°	6352.1	6296.8	5998.9	5633.4	4908.5	4254.2	3962.4	4008.5	4174.3	4331.0
30°	6911.2	6911.2	6729.9	6183.2	5384.6	4573.7	4112.9	4091.4	4116.0	4324.9
32.5°	7565.4	7476.4	7215.3	6852.8	5983.5	4865.5	4232.7	4238.9	4238.9	4438.5
35°	7909.5	8053.8	7878.7	7289.0	6441.2	5350.8	4521.4	4475.4	4441.6	4564.4
37.5°	8413.2	8499.2	8314.9	7967.8	7009.5	5744.0	4776.4	4739.5	4542.9	4662.7
40°	8717.3	8701.9	8695.8	8536.1	7762.0	6207.8	5151.1	5055.9	4791.7	5009.8
42.5°	8889.3	8858.6	9236.4	9138.1	8471.6	6889.7	5621.1	5568.9	5277.1	5627.2
45°	9082.8	9310.1	9620.4	9896.8	9297.8	7848.0	6416.6	6342.9	6081.8	6527.2
47.5°	9251.8	9531.3	9927.5	10222.4	10044.2	8889.3	7399.6	7418.0	7246.0	7703.7
50°	9534.4	9562.0	10099.5	10695.4	10833.7	9850.7	8720.4	8689.7	8612.9	9254.8
52.5°	9448.3	9531.3	10210.1	10971.9	11199.2	10867.4	10139.5	10231.6	10130.2	10938.1
55°	8047.7	8296.5	10142.5	11263.7	12065.4	12016.2	11964.0	11902.6	11896.4	12830.2
57.5°	7411.9	7614.6	8935.4	11586.2	12993.0	13355.5	13693.3	13760.9	13757.8	14885.1
60°	6994.1	7203.0	8447.0	11411.1	13782.4	15109.4	15757.5	15766.7	15748.3	17081.4
62.5°	6177.1	6379.8	7602.3	10452.8	14000.5	16728.1	18171.8	18291.6	17446.9	18973.5
65°	5194.1	5360.0	6438.1	8987.6	13420.0	17757.1	19987.1	19845.8	18878.3	20054.7
67°	4248.1	4358.6	5409.1	7715.9	11902.6	17262.6	20512.4	20629.1	19538.7	20100.8
67.5°	3977.8	4079.1	5071.3	7282.8	11325.1	16887.8	20530.8	20512.4	19550.9	20110.0
70°	2761.4	2804.4	3455.6	5009.8	8342.6	14267.7	19031.8	19074.8	18730.8	19019.6
72.5°	1830.7	1895.2	2309.9	3157.6	4917.7	10382.1	15908.0	16368.7	16150.6	15594.7
75°	1179.5	1216.4	1511.2	1879.8	2420.4	5912.9	11752.1	12059.2	11558.6	9644.9
77.5°	660.4	700.3	912.3	1142.6	1179.5	2460.4	6600.9	6981.8	5916.0	4097.6
80°	411.6	463.8	688.0	678.8	562.1	903.1	2721.5	2915.0	2365.2	1409.9
82.5°	310.2	350.2	531.4	476.1	316.4	402.4	1019.8	1093.5	866.2	543.7
85°	211.9	267.2	384.0	294.9	165.9	193.5	405.5	436.2	396.2	264.2
87.5°	76.8	113.7	199.7	147.4	73.7	58.4	132.1	147.4	141.3	119.8
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°
4076.1	0°	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1
4112.9	2.5°	4171.3	4214.3	4235.8	4361.7	4413.9	4404.7	4417.0	4435.4	4453.9	4478.4
4165.1	5°	4205.1	4337.1	4407.8	4555.2	4653.5	4610.5	4665.8	4650.5	4629.0	4625.9
4260.4	7.5°	4315.6	4484.6	4696.5	4736.5	4779.5	4672.0	4579.8	4453.9	4423.2	4315.6
4340.2	10°	4512.2	4650.5	4908.5	4923.8	4733.4	4456.9	4251.1	3990.1	3987.0	3830.3
4463.1	12.5°	4699.6	4856.3	5065.1	4976.0	4521.4	4143.6	3808.8	3523.2	3403.4	3323.5
4536.8	15°	4816.3	5074.3	5184.9	4801.0	4149.8	3639.9	3206.8	2899.6	2776.8	2718.4
4629.0	17.5°	4923.8	5283.2	5234.1	4493.8	3692.1	3120.8	2604.7	2337.5	2303.7	2260.7
4776.4	20°	5071.3	5360.0	5059.0	4094.5	3173.0	2451.2	2122.5	1993.5	2024.2	2042.6
4791.7	22.5°	5209.5	5399.9	4837.8	3658.3	2506.5	1941.3	1778.5	1806.1	1852.2	1913.6
4828.6	25°	5270.9	5464.4	4539.9	3056.3	1907.5	1634.1	1597.2	1643.3	1720.1	1723.2
4880.8	27.5°	5310.9	5418.4	4180.5	2469.6	1508.2	1428.3	1483.6	1517.4	1526.6	1563.5
4991.4	30°	5381.5	5323.1	3725.9	1766.2	1265.5	1268.6	1339.2	1339.2	1339.2	1366.9
5102.0	32.5°	5504.4	5258.6	3194.5	1290.1	1090.4	1188.7	1170.3	1164.1	1151.9	1118.1
5243.3	35°	5581.2	5083.6	2521.8	955.3	979.9	1090.4	1084.3	989.1	829.3	749.5
5602.7	37.5°	5740.9	4994.5	1855.3	737.2	915.3	1041.3	1007.5	777.1	602.0	525.2
6048.0	40°	6084.9	4936.1	1283.9	645.0	872.3	1016.7	900.0	663.5	460.7	325.6
6736.1	42.5°	6505.7	4939.2	872.3	608.2	875.4	1068.9	866.2	568.3	325.6	261.1
7654.5	45°	7070.9	4893.1	599.0	608.2	930.7	1154.9	887.7	516.0	316.4	331.7
8806.4	47.5°	7679.1	4933.0	445.4	552.9	939.9	1158.0	810.9	506.8	304.1	384.0
10059.6	50°	8388.6	4973.0	368.6	509.9	943.0	1121.1	746.4	494.5	316.4	405.5
11497.1	52.5°	9119.7	5098.9	313.3	482.2	979.9	1105.8	746.4	513.0	316.4	353.2
13327.8	55°	10210.1	5421.4	451.5	602.0	1115.0	1207.2	918.4	718.8	442.3	454.6
15081.7	57.5°	11414.2	5753.2	503.7	632.8	1145.7	1087.4	989.1	792.5	466.9	470.0
16445.5	60°	12206.7	5765.5	500.7	617.4	1072.0	939.9	967.6	835.5	476.1	402.4
17290.2	62.5°	12523.0	5390.7	522.2	617.4	998.3	878.5	992.1	900.0	491.5	503.7
17529.8	65°	12163.7	4616.7	503.7	552.9	878.5	786.3	998.3	912.3	537.5	506.8
17099.8	67°	11601.6	3977.8	513.0	525.2	817.1	746.4	1050.5	958.3	623.5	608.2
16875.6	67.5°	11441.8	3808.8	509.9	509.9	795.6	734.1	1062.8	958.3	635.8	629.7
14894.4	70°	10084.2	3087.0	522.2	503.7	703.4	697.3	1130.4	1010.6	731.0	737.2
10941.2	72.5°	7676.0	2340.6	519.1	503.7	611.3	666.5	1139.6	1044.4	795.6	737.2
6127.9	75°	4361.7	1400.7	457.7	439.2	482.2	580.5	1065.9	995.2	774.1	660.4
2448.1	77.5°	1803.0	721.8	420.8	396.2	399.3	473.0	887.7	927.6	737.2	562.1
817.1	80°	672.7	433.1	337.9	316.4	307.2	347.1	632.8	740.3	629.7	460.7
359.4	82.5°	350.2	270.3	230.4	230.4	208.9	221.2	341.0	491.5	476.1	316.4
144.4	85°	178.2	153.6	132.1	129.0	116.7	104.4	172.0	291.8	273.4	175.1
64.5	87.5°	95.2	86.0	55.3	52.2	43.0	27.6	30.7	58.4	95.2	76.8
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



<u>180°</u>
4076.1
4503.0
4653.5
4352.5
3824.2
3305.1
2706.1
2282.2
2021.1
1879.8
1753.9
1597.2
1397.6
1099.6
786.3
522.2
316.4
254.9
337.9
427.0
470.0
362.5
479.2
454.6
414.7
509.9
497.6
599.0
617.4
681.9
654.3
589.8
531.4
420.8
248.8
144.4
55.3
0.0

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