

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: P477667

Luminaire Tested: **IFLD-S-SA6D-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477667  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

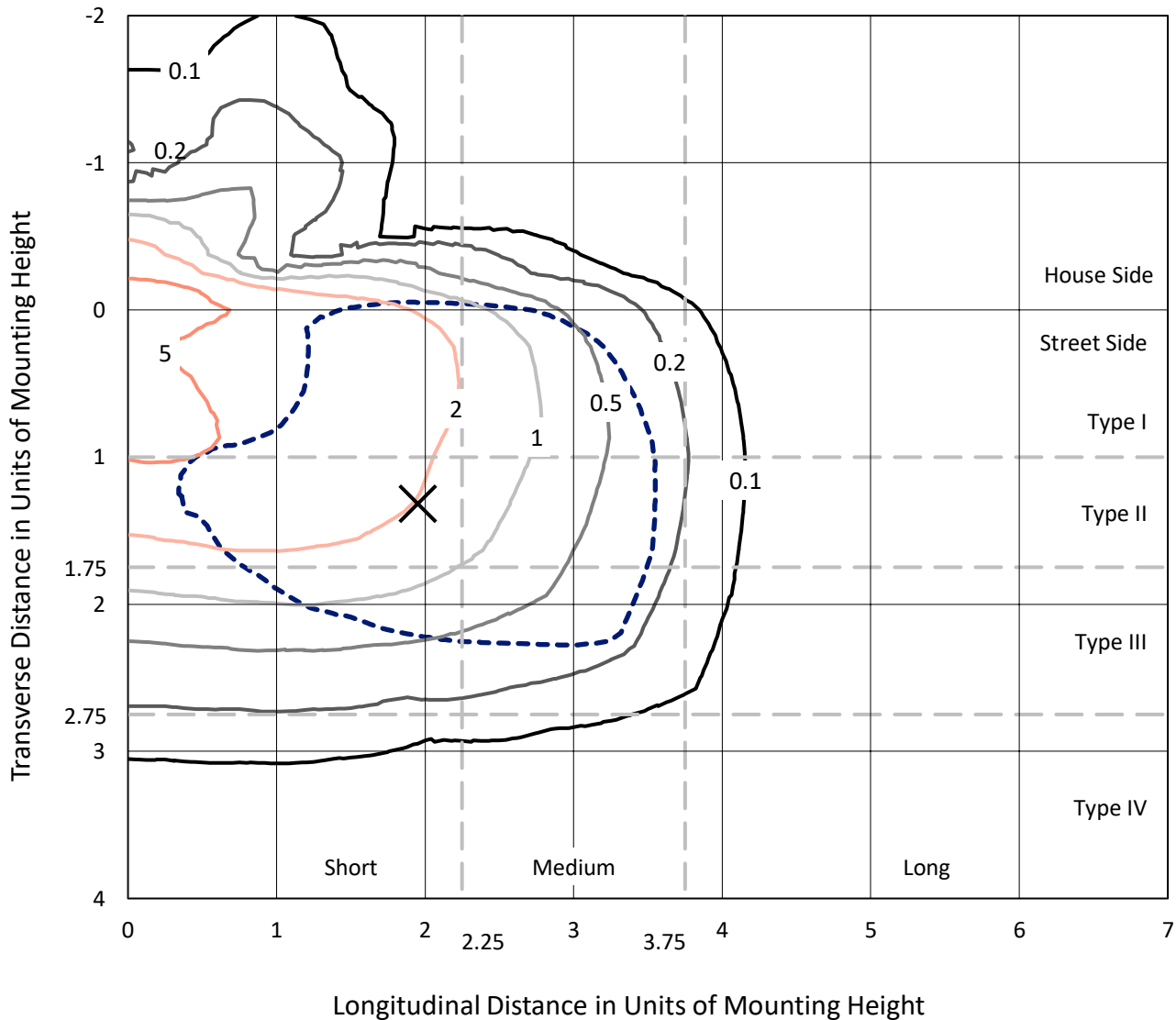
Lumens per Lamp: N/A  
Luminaire Lumens: 37560.3 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

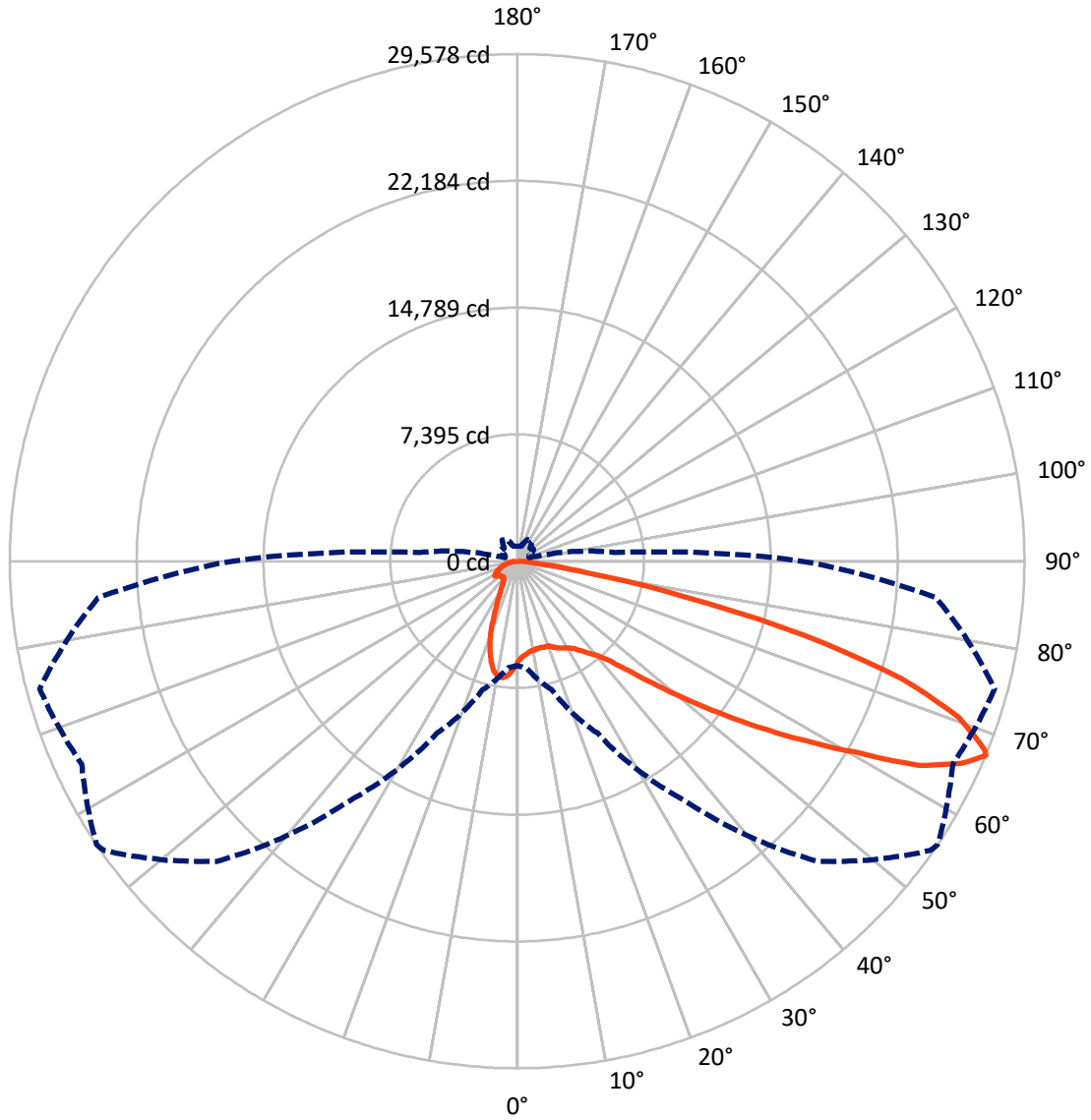
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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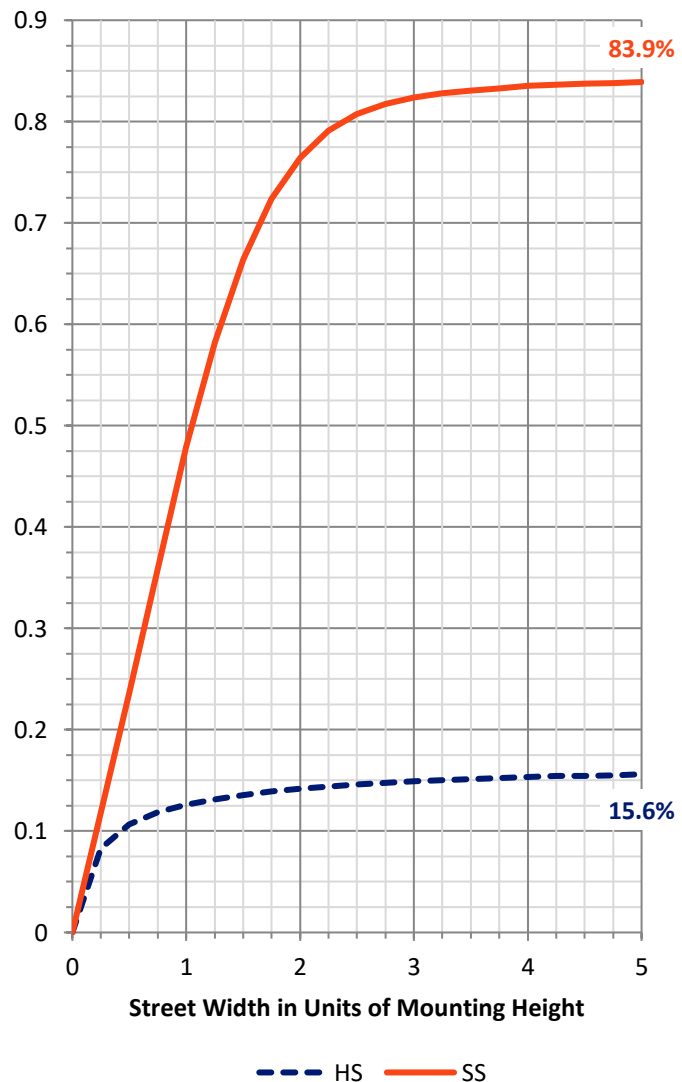
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5946.2	0.0	5946.2
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	31614.1	0.0	31614.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	37560.3	0.0	37560.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.0	1.5
10°-20°	1536.0	4.1
20°-30°	2408.9	6.4
30°-40°	3438.7	9.2
40°-50°	5190.0	13.8
50°-60°	8261.6	22.0
60°-70°	10561.9	28.1
70°-80°	5149.6	13.7
80°-90°	450.5	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°	37560.3	100.0
0°-180°	37560.3	100.0

**Coefficient of Utilization**

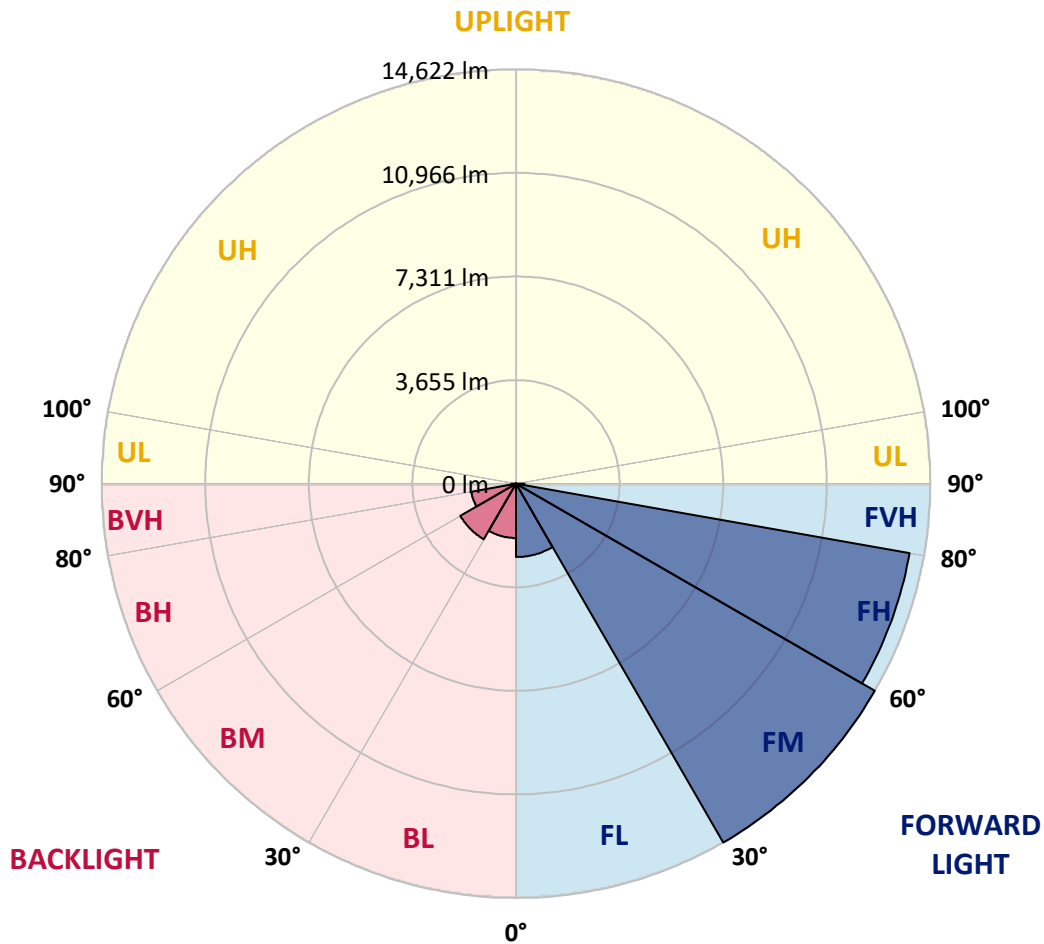


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.3	6.9			
FM (30°-60°)	14621.9	38.9			
FH (60°-80°)	14104.7	37.6			G5
FVH (80°-90°)	299.2	0.8			G3/500
BL (0°-30°)	1919.6	5.1	B3/2500		
BM (30°-60°)	2268.5	6.0	B2/2500		
BH (60°-80°)	1606.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	151.3	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°	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3
2.5°	5368.6	5346.6	5373.0	5346.6	5465.5	5536.0	5558.0	5588.8	5698.9	5804.6
5°	5144.0	5047.1	5152.8	5188.1	5196.9	5315.8	5439.1	5461.1	5518.4	5690.1
7.5°	4769.7	4879.8	4840.1	4945.8	5055.9	5174.8	5377.4	5320.2	5531.6	5694.5
10°	4690.4	4699.2	4743.2	4782.9	4879.8	5033.9	5315.8	5280.5	5496.4	5844.3
12.5°	4769.7	4769.7	4756.5	4725.6	4835.7	4985.5	5210.1	5227.7	5566.8	5888.3
15°	5047.1	5100.0	4959.0	4981.1	4937.0	4985.5	5183.7	5223.3	5593.2	5923.6
17.5°	5725.4	5707.7	5540.4	5307.0	5113.2	5082.4	5218.9	5262.9	5566.8	6024.8
20°	6386.0	6350.8	6060.1	5817.9	5434.7	5254.1	5276.1	5280.5	5610.9	6090.9
22.5°	7121.5	7214.0	6896.9	6403.6	5928.0	5478.7	5390.7	5461.1	5712.2	6126.1
25°	8275.4	8077.2	7804.1	7156.7	6390.4	5826.7	5580.0	5615.3	5809.0	6214.2
27.5°	9107.7	9028.5	8601.3	8077.2	7037.8	6099.7	5681.3	5747.4	5985.2	6209.8
30°	9909.3	9909.3	9649.4	8865.5	7720.4	6557.7	5897.1	5866.3	5901.5	6201.0
32.5°	10847.4	10719.6	10345.3	9825.6	8579.2	6976.1	6068.9	6077.7	6077.7	6364.0
35°	11340.6	11547.6	11296.6	10451.0	9235.5	7672.0	6482.9	6416.8	6368.4	6544.5
37.5°	12062.9	12186.2	11922.0	11424.3	10050.2	8235.7	6848.4	6795.6	6513.7	6685.5
40°	12498.9	12476.9	12468.1	12239.1	11129.2	8900.7	7385.7	7249.2	6870.4	7183.1
42.5°	12745.5	12701.5	13243.2	13102.3	12146.6	9878.5	8059.6	7984.7	7566.3	8068.4
45°	13023.0	13348.9	13793.7	14190.1	13331.3	11252.5	9200.2	9094.5	8720.2	9358.8
47.5°	13265.2	13666.0	14234.1	14656.9	14401.5	12745.5	10609.5	10636.0	10389.3	11045.6
50°	13670.4	13710.0	14480.8	15335.2	15533.4	14124.0	12503.3	12459.3	12349.2	13269.6
52.5°	13547.1	13666.0	14639.3	15731.5	16057.4	15581.8	14538.0	14670.1	14524.8	15683.1
55°	11538.8	11895.5	14542.4	16149.9	17299.4	17228.9	17154.1	17066.0	17057.2	18396.0
57.5°	10627.2	10917.8	12811.6	16612.4	18629.5	19149.1	19633.6	19730.5	19726.1	21342.4
60°	10028.2	10327.7	12111.3	16361.3	19761.3	21663.9	22593.2	22606.4	22580.0	24491.3
62.5°	8856.7	9147.4	10900.2	14987.2	20074.0	23984.9	26054.8	26226.6	25015.4	27204.3
65°	7447.4	7685.2	9231.0	12886.5	19241.6	25460.3	28657.7	28455.1	27067.8	28754.5
67°	6090.9	6249.5	7755.7	11063.2	17066.0	24751.2	29410.8	29578.1	28014.7	28820.6
67.5°	5703.3	5848.7	7271.2	10442.2	16238.0	24213.9	29437.2	29410.8	28032.3	28833.8
70°	3959.3	4021.0	4954.6	7183.1	11961.6	20457.2	27288.0	27349.6	26856.4	27270.4
72.5°	2624.9	2717.3	3311.9	4527.4	7051.0	14885.9	22809.0	23469.6	23156.9	22359.8
75°	1691.2	1744.0	2166.8	2695.3	3470.5	8477.9	16850.2	17290.6	16572.7	13829.0
77.5°	946.9	1004.1	1308.0	1638.3	1691.2	3527.7	9464.5	10010.6	8482.3	5875.1
80°	590.2	665.0	986.5	973.3	806.0	1294.8	3902.1	4179.5	3391.2	2021.5
82.5°	444.8	502.1	761.9	682.6	453.6	576.9	1462.2	1567.9	1242.0	779.5
85°	303.9	383.2	550.5	422.8	237.8	277.5	581.3	625.4	568.1	378.8
87.5°	110.1	163.0	286.3	211.4	105.7	83.7	189.4	211.4	202.6	171.8
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°
5844.3	0°	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3
5897.1	2.5°	5980.8	6042.5	6073.3	6253.9	6328.7	6315.5	6333.1	6359.6	6386.0	6421.2
5972.0	5°	6029.2	6218.6	6319.9	6531.3	6672.3	6610.6	6689.9	6667.8	6637.0	6632.6
6108.5	7.5°	6187.8	6430.0	6733.9	6791.2	6852.8	6698.7	6566.6	6386.0	6341.9	6187.8
6223.0	10°	6469.7	6667.8	7037.8	7059.8	6786.8	6390.4	6095.3	5721.0	5716.6	5491.9
6399.2	12.5°	6738.3	6962.9	7262.4	7134.7	6482.9	5941.2	5461.1	5051.5	4879.8	4765.3
6504.9	15°	6905.7	7275.6	7434.2	6883.7	5950.0	5218.9	4597.9	4157.5	3981.3	3897.7
6637.0	17.5°	7059.8	7575.1	7504.6	6443.2	5293.8	4474.6	3734.7	3351.5	3303.1	3241.4
6848.4	20°	7271.2	7685.2	7253.6	5870.7	4549.5	3514.5	3043.3	2858.3	2902.3	2928.7
6870.4	22.5°	7469.4	7742.5	6936.5	5245.3	3593.8	2783.4	2550.0	2589.6	2655.7	2743.8
6923.3	25°	7557.5	7834.9	6509.3	4382.1	2735.0	2343.0	2290.1	2356.2	2466.3	2470.7
6998.2	27.5°	7614.7	7768.9	5994.0	3540.9	2162.4	2047.9	2127.2	2175.6	2188.9	2241.7
7156.7	30°	7716.0	7632.4	5342.2	2532.4	1814.5	1818.9	1920.2	1920.2	1920.2	1959.8
7315.3	32.5°	7892.2	7539.9	4580.3	1849.7	1563.5	1704.4	1678.0	1669.2	1651.5	1603.1
7517.8	35°	8002.3	7288.8	3615.8	1369.7	1404.9	1563.5	1554.7	1418.1	1189.1	1074.6
8033.1	37.5°	8231.3	7161.1	2660.1	1057.0	1312.4	1493.0	1444.6	1114.2	863.2	753.1
8671.7	40°	8724.6	7077.4	1840.9	924.9	1250.8	1457.8	1290.4	951.3	660.6	466.8
9658.3	42.5°	9327.9	7081.8	1250.8	872.0	1255.2	1532.6	1242.0	814.8	466.8	374.4
10975.1	45°	10138.3	7015.8	858.8	872.0	1334.5	1656.0	1272.8	739.9	453.6	475.6
12626.6	47.5°	11010.3	7073.0	638.6	792.7	1347.7	1660.4	1162.7	726.7	436.0	550.5
14423.5	50°	12027.7	7130.3	528.5	731.1	1352.1	1607.5	1070.2	709.1	453.6	581.3
16484.6	52.5°	13075.9	7310.9	449.2	691.4	1404.9	1585.5	1070.2	735.5	453.6	506.5
19109.5	55°	14639.3	7773.3	647.4	863.2	1598.7	1730.8	1316.8	1030.6	634.2	651.8
21624.3	57.5°	16365.7	8248.9	722.3	907.3	1642.7	1559.1	1418.1	1136.3	669.4	673.8
23579.7	60°	17502.0	8266.5	717.9	885.2	1537.0	1347.7	1387.3	1197.9	682.6	576.9
24790.8	62.5°	17955.6	7729.2	748.7	885.2	1431.3	1259.6	1422.5	1290.4	704.7	722.3
25134.4	65°	17440.3	6619.4	722.3	792.7	1259.6	1127.5	1431.3	1308.0	770.7	726.7
24517.8	67°	16634.4	5703.3	735.5	753.1	1171.5	1070.2	1506.2	1374.1	894.0	872.0
24196.3	67.5°	16405.4	5461.1	731.1	731.1	1140.7	1052.6	1523.8	1374.1	911.7	902.8
21355.6	70°	14458.7	4426.1	748.7	722.3	1008.5	999.7	1620.7	1449.0	1048.2	1057.0
15687.5	72.5°	11005.9	3355.9	744.3	722.3	876.4	955.7	1633.9	1497.4	1140.7	1057.0
8786.2	75°	6253.9	2008.3	656.2	629.8	691.4	832.4	1528.2	1426.9	1109.8	946.9
3510.1	77.5°	2585.2	1035.0	603.4	568.1	572.5	678.2	1272.8	1330.0	1057.0	806.0
1171.5	80°	964.5	621.0	484.5	453.6	440.4	497.7	907.3	1061.4	902.8	660.6
515.3	82.5°	502.1	387.6	330.3	330.3	299.5	317.1	488.9	704.7	682.6	453.6
207.0	85°	255.4	220.2	189.4	185.0	167.4	149.7	246.6	418.4	392.0	251.0
92.5	87.5°	136.5	123.3	79.3	74.9	61.7	39.6	44.0	83.7	136.5	110.1
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>
5844.3
6456.4
6672.3
6240.6
5483.1
4738.8
3880.0
3272.3
2897.9
2695.3
2514.8
2290.1
2003.9
1576.7
1127.5
748.7
453.6
365.5
484.5
612.2
673.8
519.7
687.0
651.8
594.6
731.1
713.5
858.8
885.2
977.7
938.1
845.6
761.9
603.4
356.7
207.0
79.3
0.0

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