

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: P477832

Luminaire Tested: **IFLD-L-SA7C-750-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477832  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

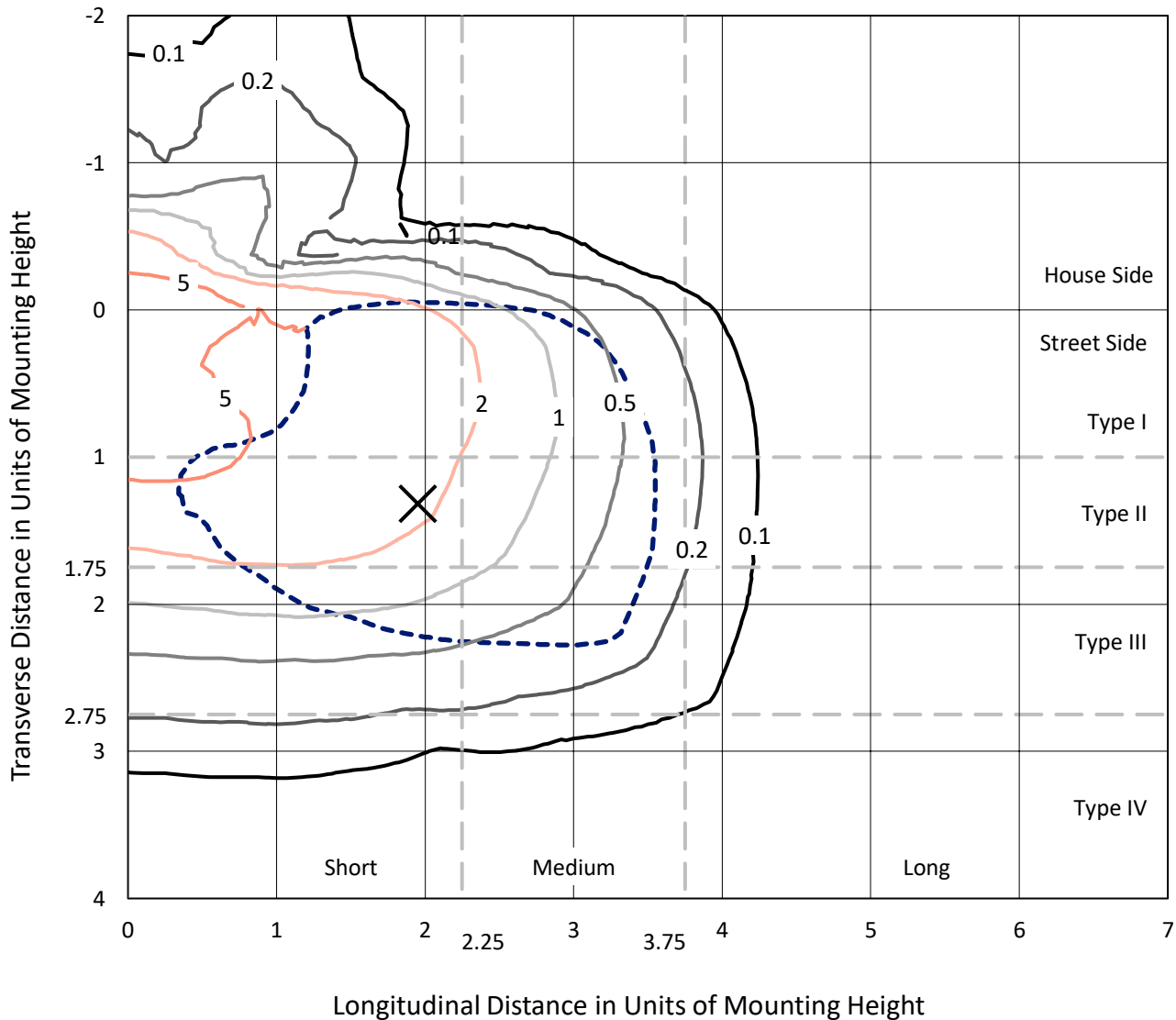
Lumens per Lamp: N/A  
Luminaire Lumens: 44543.3 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

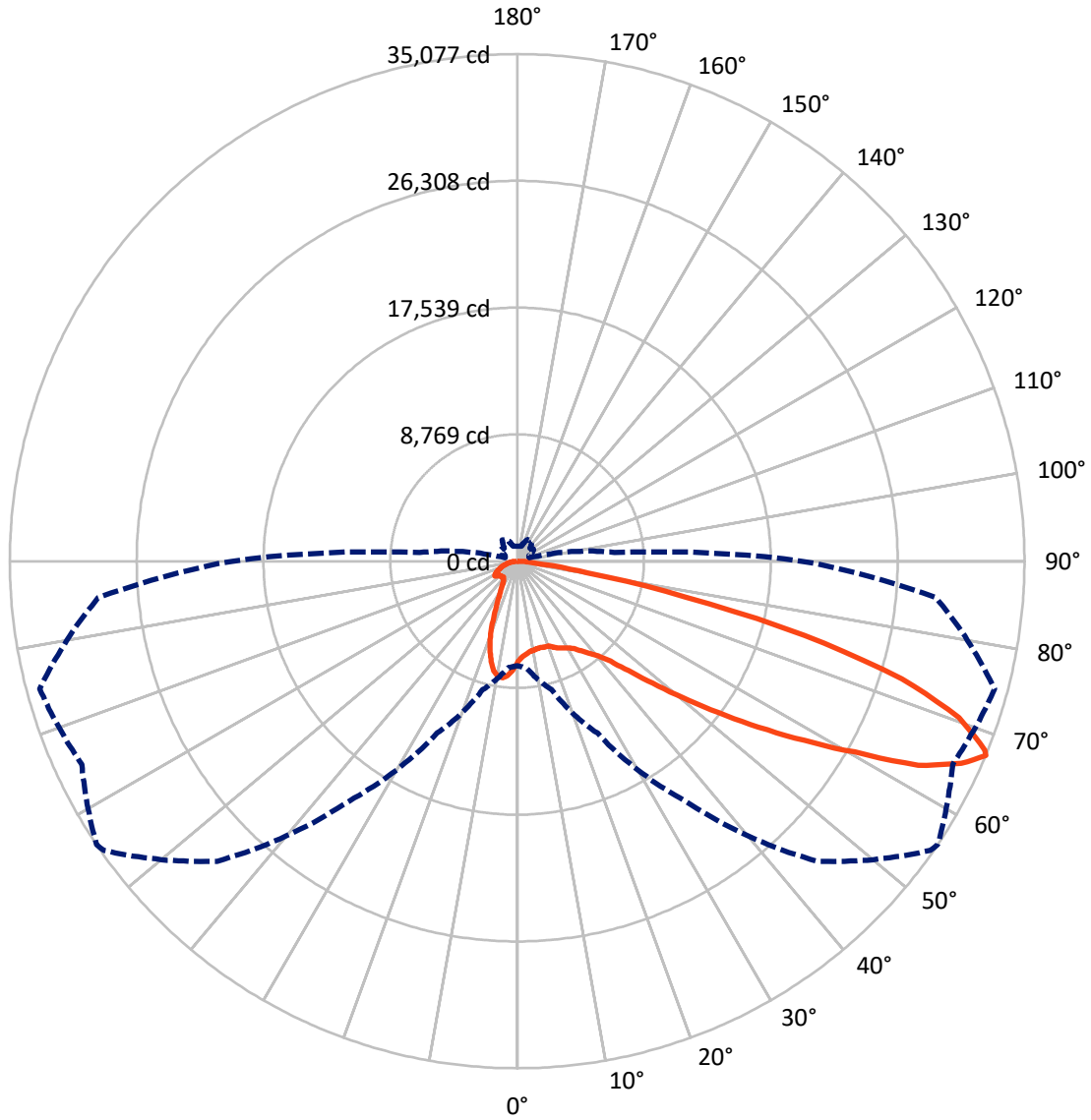
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	7051.7	0.0	7051.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	37491.6	0.0	37491.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	44543.3	0.0	44543.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.7	1.5
10°-20°	1821.6	4.1
20°-30°	2856.7	6.4
30°-40°	4078.0	9.2
40°-50°	6154.9	13.8
50°-60°	9797.6	22.0
60°-70°	12525.5	28.1
70°-80°	6107.0	13.7
80°-90°	534.2	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°	44543.3	100.0
0°-180°	44543.3	100.0

**Coefficient of Utilization**

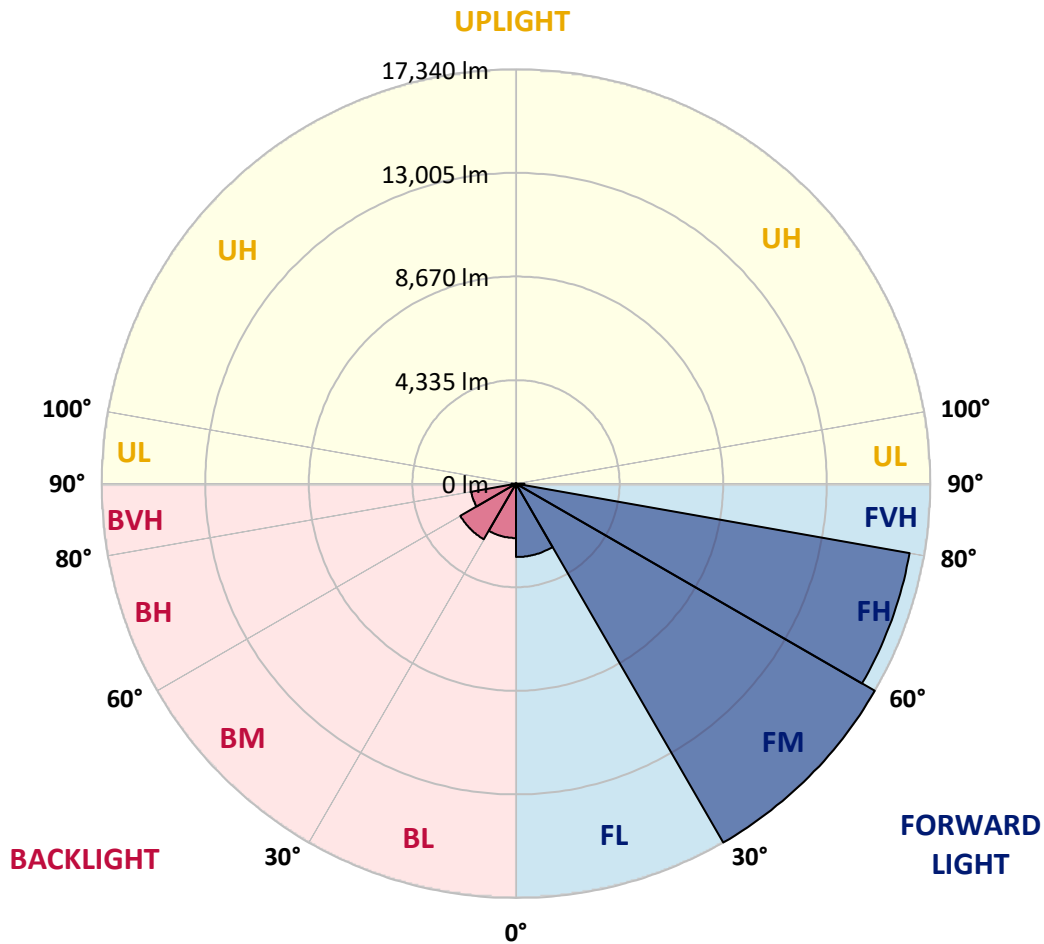


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.5	6.9			
FM (30°-60°)	17340.3	38.9			
FH (60°-80°)	16727.0	37.6			G5
FVH (80°-90°)	354.8	0.8			G3/500
BL (0°-30°)	2276.5	5.1	B3/2500		
BM (30°-60°)	2690.3	6.0	B3/5000		
BH (60°-80°)	1905.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	179.4	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°	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8
2.5°	6366.7	6340.6	6372.0	6340.6	6481.6	6565.2	6591.3	6627.9	6758.5	6883.8
5°	6100.4	5985.5	6110.8	6152.6	6163.0	6304.1	6450.3	6476.4	6544.3	6748.0
7.5°	5656.4	5787.0	5740.0	5865.3	5995.9	6136.9	6377.2	6309.3	6560.0	6753.2
10°	5562.4	5572.9	5625.1	5672.1	5787.0	5969.8	6304.1	6262.3	6518.2	6930.8
12.5°	5656.4	5656.4	5640.8	5604.2	5734.8	5912.3	6178.7	6199.6	6601.8	6983.0
15°	5985.5	6048.1	5881.0	5907.1	5854.9	5912.3	6147.4	6194.4	6633.1	7024.8
17.5°	6789.8	6768.9	6570.4	6293.6	6063.8	6027.2	6189.2	6241.4	6601.8	7145.0
20°	7573.2	7531.4	7186.7	6899.5	6445.1	6230.9	6257.1	6262.3	6654.0	7223.3
22.5°	8445.5	8555.1	8179.1	7594.1	7030.0	6497.3	6392.9	6476.4	6774.1	7265.1
25°	9813.9	9578.8	9255.0	8487.2	7578.5	6909.9	6617.4	6659.2	6889.0	7369.5
27.5°	10801.0	10707.0	10200.4	9578.8	8346.2	7233.7	6737.6	6815.9	7097.9	7364.3
30°	11751.6	11751.6	11443.4	10513.7	9155.8	7776.9	6993.5	6956.9	6998.7	7353.9
32.5°	12864.1	12712.6	12268.6	11652.3	10174.2	8273.1	7197.2	7207.6	7207.6	7547.1
35°	13449.0	13694.5	13396.8	12394.0	10952.5	9098.3	7688.1	7609.8	7552.3	7761.3
37.5°	14305.6	14451.8	14138.4	13548.3	11918.7	9766.9	8121.6	8059.0	7724.7	7928.4
40°	14822.6	14796.5	14786.1	14514.5	13198.3	10555.5	8758.8	8596.9	8147.8	8518.6
42.5°	15115.1	15062.9	15705.3	15538.2	14404.8	11715.0	9557.9	9469.2	8973.0	9568.4
45°	15444.2	15830.7	16358.2	16828.2	15809.8	13344.6	10910.7	10785.3	10341.4	11098.7
47.5°	15731.4	16206.7	16880.5	17381.9	17078.9	15115.1	12582.0	12613.4	12320.9	13099.1
50°	16211.9	16258.9	17173.0	18186.2	18421.2	16749.9	14827.9	14775.6	14645.1	15736.7
52.5°	16065.7	16206.7	17361.0	18656.3	19042.8	18478.7	17240.9	17397.5	17225.2	18598.8
55°	13684.0	14107.1	17246.1	19152.4	20515.6	20432.1	20343.3	20238.8	20228.4	21816.1
57.5°	12602.9	12947.6	15193.5	19700.9	22092.9	22709.3	23283.8	23398.7	23393.5	25310.3
60°	11892.6	12247.7	14363.0	19403.1	23435.2	25691.5	26793.6	26809.2	26777.9	29044.7
62.5°	10503.3	10848.0	12926.7	17773.6	23806.1	28444.0	30898.8	31102.5	29666.2	32262.0
65°	8832.0	9114.0	10947.2	15282.3	22818.9	30193.7	33985.5	33745.3	32100.1	34100.4
67°	7223.3	7411.3	9197.6	13120.0	20238.8	29352.8	34878.7	35077.1	33223.0	34178.8
67.5°	6763.7	6936.0	8623.0	12383.5	19256.9	28715.6	34910.0	34878.7	33243.9	34194.5
70°	4695.4	4768.5	5875.8	8518.6	14185.4	24260.5	32361.2	32434.3	31849.4	32340.3
72.5°	3112.9	3222.5	3927.6	5369.2	8361.9	17653.5	27049.5	27832.9	27462.1	26516.8
75°	2005.6	2068.3	2569.7	3196.4	4115.7	10054.1	19982.9	20505.2	19653.8	16400.0
77.5°	1122.9	1190.8	1551.2	1942.9	2005.6	4183.6	11224.1	11871.7	10059.3	6967.4
80°	699.9	788.7	1169.9	1154.3	955.8	1535.5	4627.5	4956.6	4021.6	2397.3
82.5°	527.5	595.4	903.6	809.6	538.0	684.2	1734.0	1859.4	1472.9	924.5
85°	360.4	454.4	652.9	501.4	282.0	329.0	689.4	741.7	673.8	449.2
87.5°	130.6	193.2	339.5	250.7	125.4	99.2	224.6	250.7	240.3	203.7
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°
6930.8	0°	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8
6993.5	2.5°	7092.7	7165.8	7202.4	7416.5	7505.3	7489.7	7510.6	7541.9	7573.2	7615.0
7082.3	5°	7150.2	7374.8	7494.9	7745.6	7912.7	7839.6	7933.6	7907.5	7870.9	7865.7
7244.2	7.5°	7338.2	7625.5	7985.8	8053.7	8126.9	7944.1	7787.4	7573.2	7521.0	7338.2
7380.0	10°	7672.5	7907.5	8346.2	8372.3	8048.5	7578.5	7228.5	6784.6	6779.3	6513.0
7588.9	12.5°	7991.1	8257.4	8612.6	8461.1	7688.1	7045.7	6476.4	5990.7	5787.0	5651.2
7714.3	15°	8189.5	8628.3	8816.3	8163.4	7056.2	6189.2	5452.7	4930.4	4721.5	4622.3
7870.9	17.5°	8372.3	8983.4	8899.9	7641.1	6277.9	5306.5	4429.0	3974.6	3917.2	3844.1
8121.6	20°	8623.0	9114.0	8602.1	6962.2	5395.3	4167.9	3609.0	3389.7	3441.9	3473.2
8147.8	22.5°	8858.1	9181.9	8226.1	6220.5	4261.9	3300.9	3024.1	3071.1	3149.4	3253.9
8210.4	25°	8962.5	9291.6	7719.5	5196.8	3243.4	2778.6	2715.9	2794.3	2924.8	2930.1
8299.2	27.5°	9030.4	9213.2	7108.4	4199.2	2564.5	2428.7	2522.7	2580.1	2595.8	2658.5
8487.2	30°	9150.6	9051.3	6335.4	3003.2	2151.8	2157.1	2277.2	2277.2	2277.2	2324.2
8675.3	32.5°	9359.5	8941.6	5431.8	2193.6	1854.1	2021.3	1989.9	1979.5	1958.6	1901.1
8915.5	35°	9490.0	8643.9	4288.0	1624.3	1666.1	1854.1	1843.7	1681.8	1410.2	1274.4
9526.6	37.5°	9761.6	8492.5	3154.6	1253.5	1556.4	1770.6	1713.1	1321.4	1023.7	893.1
10283.9	40°	10346.6	8393.2	2183.2	1096.8	1483.3	1728.8	1530.3	1128.2	783.4	553.6
11453.9	42.5°	11062.1	8398.5	1483.3	1034.1	1488.5	1817.6	1472.9	966.2	553.6	443.9
13015.5	45°	12023.2	8320.1	1018.5	1034.1	1582.5	1963.8	1509.4	877.5	538.0	564.1
14974.1	47.5°	13057.3	8388.0	757.3	940.1	1598.2	1969.0	1378.9	861.8	517.1	652.9
17105.1	50°	14263.8	8455.9	626.8	867.0	1603.4	1906.4	1269.2	840.9	538.0	689.4
19549.4	52.5°	15506.8	8670.0	532.7	820.0	1666.1	1880.3	1269.2	872.2	538.0	600.6
22662.2	55°	17361.0	9218.5	767.8	1023.7	1895.9	2052.6	1561.7	1222.2	752.1	773.0
25644.5	57.5°	19408.4	9782.5	856.6	1075.9	1948.1	1848.9	1681.8	1347.5	793.9	799.1
27963.5	60°	20755.9	9803.4	851.3	1049.8	1822.8	1598.2	1645.2	1420.6	809.6	684.2
29399.8	62.5°	21293.8	9166.2	887.9	1049.8	1697.4	1493.8	1687.0	1530.3	835.7	856.6
29807.2	65°	20682.8	7850.0	856.6	940.1	1493.8	1337.1	1697.4	1551.2	914.0	861.8
29076.0	67°	19727.0	6763.7	872.2	893.1	1389.3	1269.2	1786.2	1629.6	1060.3	1034.1
28694.7	67.5°	19455.4	6476.4	867.0	867.0	1352.7	1248.3	1807.1	1629.6	1081.1	1070.7
25325.9	70°	17146.8	5249.0	887.9	856.6	1196.0	1185.6	1922.0	1718.3	1243.1	1253.5
18604.0	72.5°	13052.1	3979.9	882.7	856.6	1039.4	1133.4	1937.7	1775.8	1352.7	1253.5
10419.7	75°	7416.5	2381.7	778.2	746.9	820.0	987.1	1812.4	1692.2	1316.2	1122.9
4162.7	77.5°	3065.9	1227.4	715.5	673.8	679.0	804.3	1509.4	1577.3	1253.5	955.8
1389.3	80°	1143.8	736.4	574.5	538.0	522.3	590.2	1075.9	1258.7	1070.7	783.4
611.1	82.5°	595.4	459.6	391.7	391.7	355.2	376.1	579.7	835.7	809.6	538.0
245.5	85°	302.9	261.1	224.6	219.4	198.5	177.6	292.5	496.2	464.8	297.7
109.7	87.5°	161.9	146.2	94.0	88.8	73.1	47.0	52.2	99.2	161.9	130.6
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>
6930.8
7656.8
7912.7
7400.9
6502.5
5619.9
4601.4
3880.6
3436.7
3196.4
2982.3
2715.9
2376.4
1869.8
1337.1
887.9
538.0
433.5
574.5
726.0
799.1
616.3
814.8
773.0
705.1
867.0
846.1
<i>1018.5</i>
1049.8
1159.5
1112.5
1002.8
903.6
715.5
423.1
245.5
94.0
0.0

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