

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: P477707

Luminaire Tested: **IFLD-S-SA6E-730-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477707  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

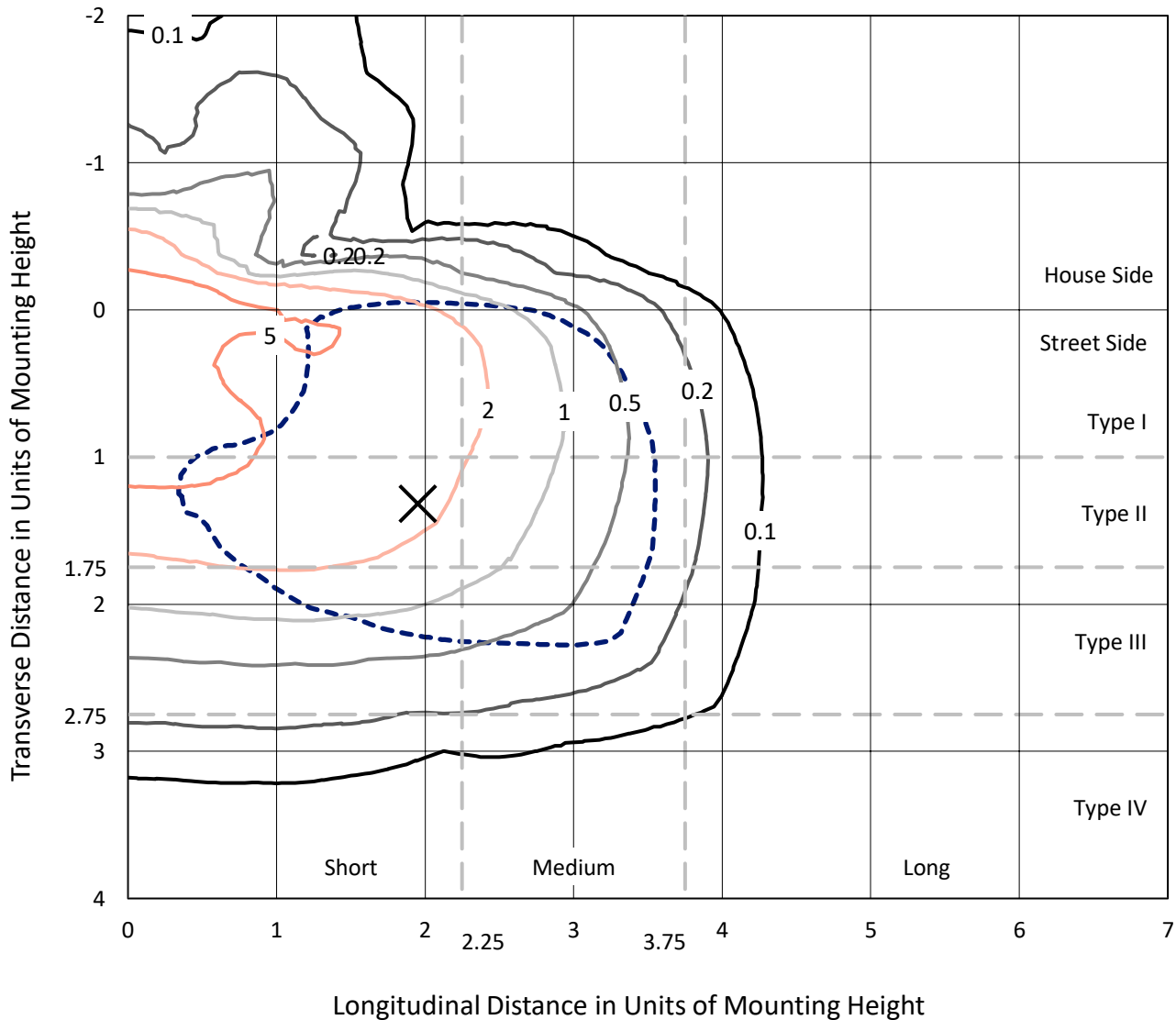
Lumens per Lamp: N/A  
Luminaire Lumens: 47329.6 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2  
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

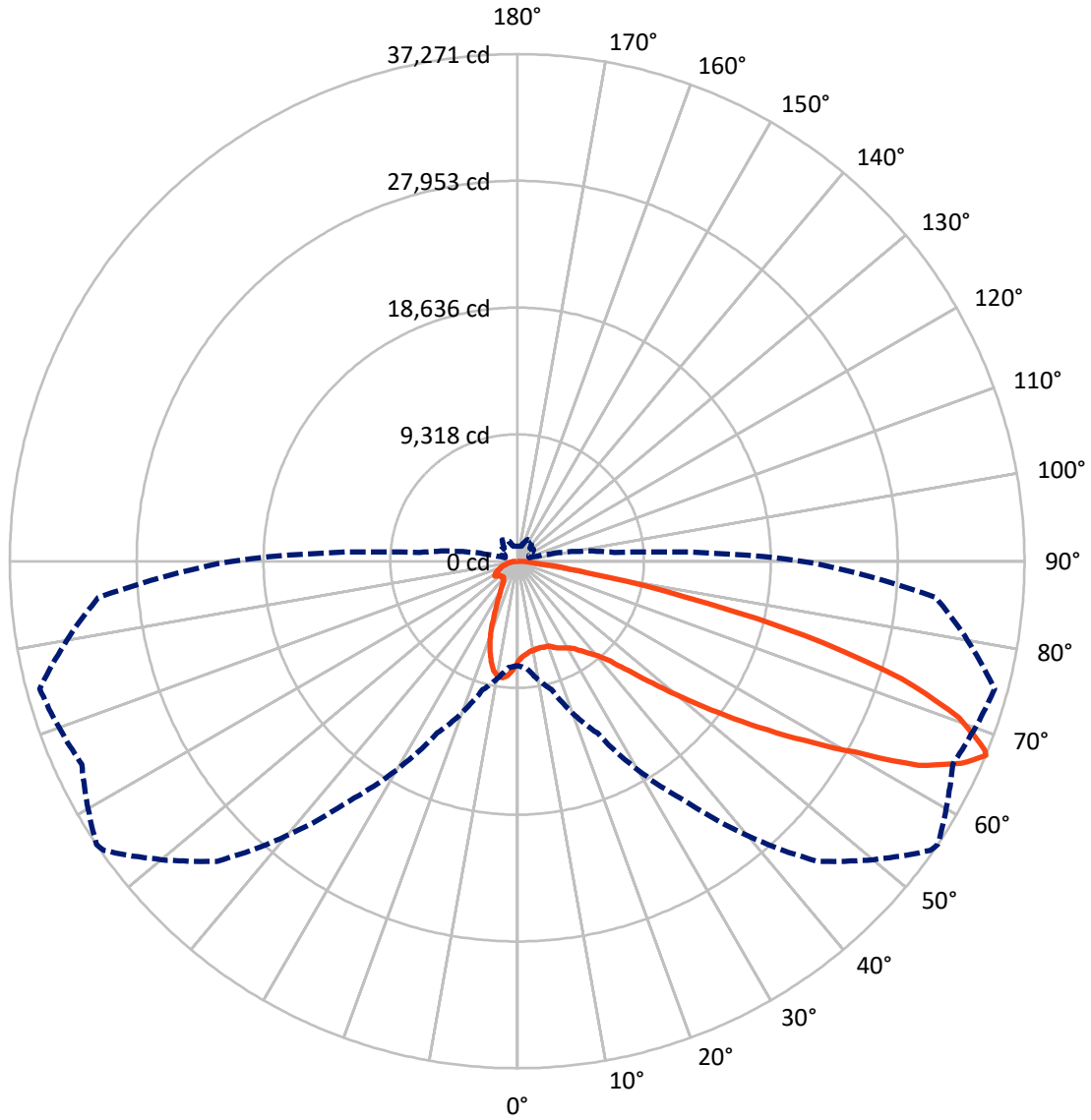
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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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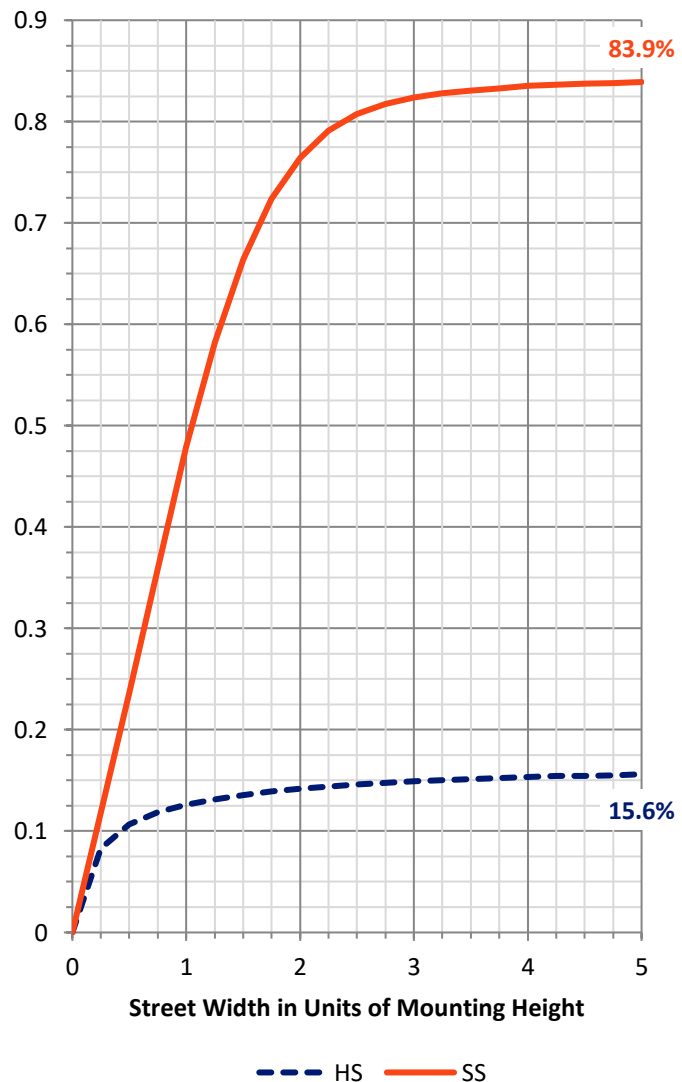
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7492.8	0.0	7492.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	39836.8	0.0	39836.8
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	47329.6	0.0	47329.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.5	1.5
10°-20°	1935.5	4.1
20°-30°	3035.4	6.4
30°-40°	4333.1	9.2
40°-50°	6539.9	13.8
50°-60°	10410.5	22.0
60°-70°	13309.0	28.1
70°-80°	6489.0	13.7
80°-90°	567.6	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°	47329.6	100.0
0°-180°	47329.6	100.0

**Coefficient of Utilization**

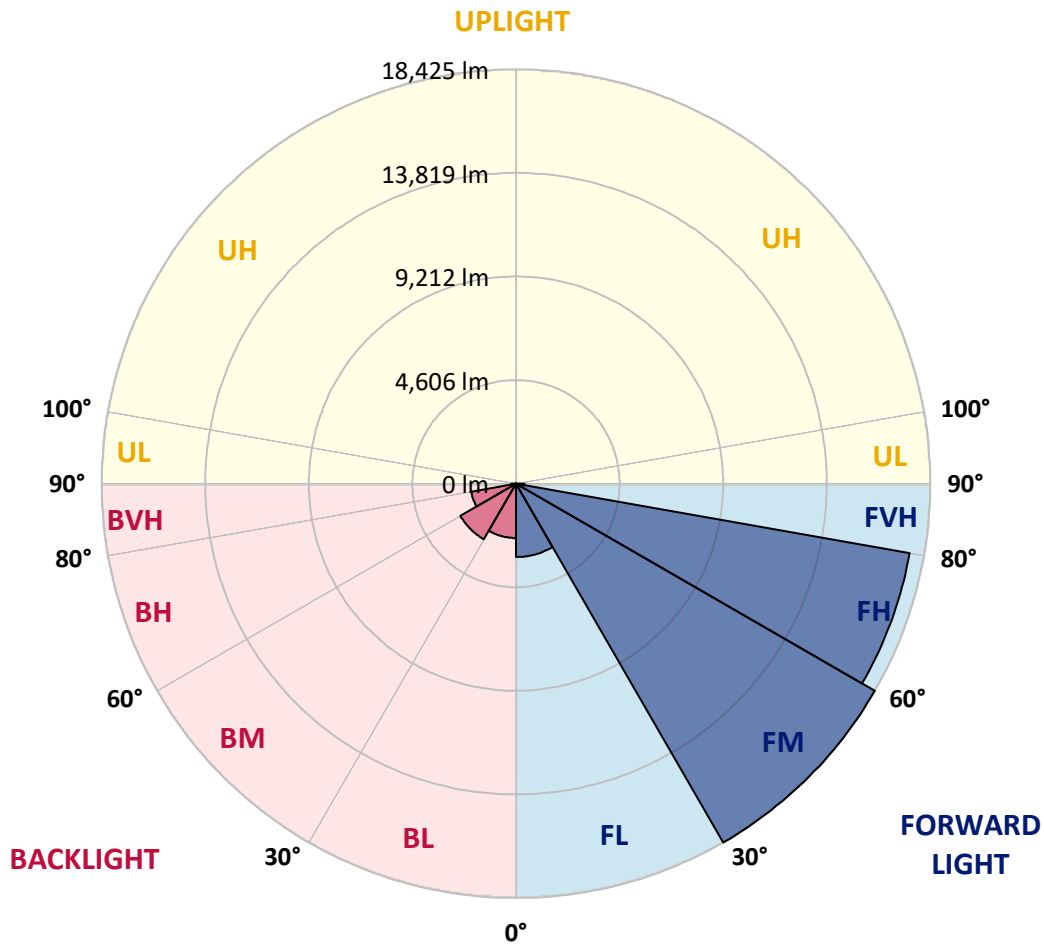


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3261.5	6.9			
FM (30°-60°)	18425.0	38.9			
FH (60°-80°)	17773.3	37.6			G5
FVH (80°-90°)	377.0	0.8			G3/500
BL (0°-30°)	2418.9	5.1	B3/2500		
BM (30°-60°)	2858.6	6.0	B3/5000		
BH (60°-80°)	2024.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	190.7	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°	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4
2.5°	6765.0	6737.2	6770.5	6737.2	6887.1	6975.9	7003.6	7042.5	7181.2	7314.4
5°	6482.0	6359.9	6493.1	6537.5	6548.6	6698.4	6853.8	6881.5	6953.7	7170.1
7.5°	6010.2	6149.0	6099.0	6232.2	6371.0	6520.8	6776.1	6704.0	6970.3	7175.7
10°	5910.4	5921.5	5976.9	6026.9	6149.0	6343.2	6698.4	6654.0	6925.9	7364.4
12.5°	6010.2	6010.2	5993.6	5954.8	6093.5	6282.2	6565.2	6587.4	7014.7	7419.9
15°	6359.9	6426.5	6248.9	6276.6	6221.1	6282.2	6531.9	6581.9	7048.0	7464.2
17.5°	7214.5	7192.3	6981.4	6687.3	6443.1	6404.3	6576.3	6631.8	7014.7	7591.9
20°	8047.0	8002.6	7636.3	7331.1	6848.2	6620.7	6648.5	6654.0	7070.2	7675.1
22.5°	8973.7	9090.3	8690.7	8069.2	7469.8	6903.7	6792.7	6881.5	7197.9	7719.5
25°	10427.8	10178.0	9833.9	9018.1	8052.5	7342.2	7031.4	7075.8	7320.0	7830.5
27.5°	11476.6	11376.7	10838.4	10178.0	8868.3	7686.2	7159.0	7242.3	7541.9	7825.0
30°	12486.7	12486.7	12159.2	11171.4	9728.5	8263.4	7431.0	7392.1	7436.5	7813.9
32.5°	13668.7	13507.8	13036.1	12381.2	10810.7	8790.6	7647.4	7658.5	7658.5	8019.2
35°	14290.3	14551.1	14234.8	13169.3	11637.6	9667.5	8169.1	8085.8	8024.8	8246.7
37.5°	15200.4	15355.8	15022.8	14395.7	12664.3	10377.8	8629.7	8563.1	8207.9	8424.3
40°	15749.8	15722.1	15711.0	15422.4	14023.9	11215.8	9306.7	9134.7	8657.4	9051.4
42.5°	16060.6	16005.1	16687.7	16510.1	15305.9	12447.8	10155.8	10061.5	9534.3	10166.9
45°	16410.2	16820.9	17381.4	17880.9	16798.7	14179.3	11593.2	11460.0	10988.3	11793.0
47.5°	16715.5	17220.5	17936.4	18469.2	18147.3	16060.6	13369.1	13402.4	13091.6	13918.5
50°	17226.0	17276.0	18247.2	19323.8	19573.5	17797.7	15755.4	15699.9	15561.2	16721.0
52.5°	17070.7	17220.5	18447.0	19823.3	20233.9	19634.6	18319.3	18485.8	18302.7	19762.2
55°	14540.0	14989.5	18324.9	20350.5	21798.9	21710.1	21615.8	21504.8	21493.7	23180.8
57.5°	13391.3	13757.5	16143.9	20933.2	23474.9	24129.8	24740.2	24862.3	24856.8	26893.5
60°	12636.5	13013.9	15261.5	20616.9	24901.2	27298.6	28469.6	28486.2	28452.9	30861.5
62.5°	11160.3	11526.6	13735.3	18885.4	25295.2	30223.3	32831.6	33048.0	31521.9	34280.1
65°	9384.4	9684.1	11632.0	16238.2	24246.3	32082.4	36111.4	35856.1	34108.0	36233.5
67°	7675.1	7874.9	9772.9	13940.7	21504.8	31188.9	37060.4	37271.3	35301.2	36316.8
67.5°	7186.8	7369.9	9162.4	13158.2	20461.5	30511.9	37093.7	37060.4	35323.4	36333.4
70°	4989.1	5066.8	6243.3	9051.4	15072.8	25778.0	34385.5	34463.2	33841.6	34363.3
72.5°	3307.6	3424.1	4173.3	5705.0	8885.0	18757.7	28741.5	29574.0	29179.9	28175.5
75°	2131.1	2197.7	2730.4	3396.4	4373.1	10683.0	21232.9	21787.8	20883.2	17425.8
77.5°	1193.2	1265.3	1648.2	2064.5	2131.1	4445.3	11926.2	12614.3	10688.6	7403.2
80°	743.7	838.0	1243.1	1226.5	1015.6	1631.6	4917.0	5266.6	4273.2	2547.3
82.5°	560.5	632.7	960.1	860.2	571.6	727.0	1842.5	1975.7	1565.0	982.3
85°	382.9	482.8	693.7	532.8	299.7	349.6	732.6	788.0	715.9	477.3
87.5°	138.7	205.3	360.7	266.4	133.2	105.4	238.6	266.4	255.3	216.4
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°
7364.4	0°	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4	7364.4
7431.0	2.5°	7536.4	7614.1	7652.9	7880.5	7974.8	7958.2	7980.4	8013.7	8047.0	8091.4
7525.3	5°	7597.4	7836.1	7963.7	8230.1	8407.7	8330.0	8429.9	8402.1	8363.3	8357.7
7697.3	7.5°	7797.2	8102.5	8485.4	8557.5	8635.2	8441.0	8274.5	8047.0	7991.5	7797.2
7841.6	10°	8152.4	8402.1	8868.3	8896.1	8552.0	8052.5	7680.7	7209.0	7203.4	6920.4
8063.6	12.5°	8490.9	8774.0	9151.3	8990.4	8169.1	7486.4	6881.5	6365.4	6149.0	6004.7
8196.8	15°	8701.8	9168.0	9367.8	8674.1	7497.5	6576.3	5793.8	5238.8	5016.9	4911.4
8363.3	17.5°	8896.1	9545.4	9456.6	8119.1	6670.7	5638.4	4706.1	4223.3	4162.2	4084.5
8629.7	20°	9162.4	9684.1	9140.2	7397.7	5732.8	4428.6	3834.8	3601.7	3657.2	3690.5
8657.4	22.5°	9412.2	9756.2	8740.7	6609.6	4528.5	3507.4	3213.2	3263.2	3346.4	3457.4
8724.0	25°	9523.2	9872.8	8202.3	5521.9	3446.3	2952.4	2885.8	2969.1	3107.8	3113.3
8818.4	27.5°	9595.3	9789.5	7553.0	4461.9	2724.9	2580.6	2680.5	2741.5	2758.2	2824.8
9018.1	30°	9722.9	9617.5	6731.7	3191.0	2286.4	2292.0	2419.6	2419.6	2419.6	2469.6
9217.9	32.5°	9944.9	9501.0	5771.6	2330.8	1970.1	2147.7	2114.4	2103.3	2081.1	2020.1
9473.2	35°	10083.7	9184.6	4556.2	1725.9	1770.3	1970.1	1959.0	1787.0	1498.4	1354.1
10122.5	37.5°	10372.3	9023.7	3352.0	1331.9	1653.8	1881.3	1820.3	1404.1	1087.7	949.0
10927.2	40°	10993.8	8918.3	2319.7	1165.4	1576.1	1836.9	1626.0	1198.7	832.4	588.3
12170.3	42.5°	11754.1	8923.8	1576.1	1098.8	1581.6	1931.3	1565.0	1026.7	588.3	471.7
13829.7	45°	12775.2	8840.6	1082.2	1098.8	1681.5	2086.7	1603.8	932.3	571.6	599.4
15910.8	47.5°	13874.1	8912.7	804.7	998.9	1698.2	2092.2	1465.1	915.7	549.4	693.7
18175.0	50°	15156.0	8984.8	666.0	921.2	1703.7	2025.6	1348.6	893.5	571.6	732.6
20772.3	52.5°	16476.8	9212.4	566.1	871.3	1770.3	1997.9	1348.6	926.8	571.6	638.2
24079.8	55°	18447.0	9795.1	815.8	1087.7	2014.5	2181.0	1659.3	1298.6	799.1	821.3
27248.7	57.5°	20622.4	10394.5	910.1	1143.2	2070.0	1964.6	1787.0	1431.8	843.5	849.1
29712.7	60°	22054.2	10416.7	904.6	1115.5	1936.8	1698.2	1748.1	1509.5	860.2	727.0
31238.9	62.5°	22625.8	9739.6	943.4	1115.5	1803.6	1587.2	1792.5	1626.0	887.9	910.1
31671.7	65°	21976.5	8341.1	910.1	998.9	1587.2	1420.7	1803.6	1648.2	971.2	915.7
30894.8	67°	20960.9	7186.8	926.8	949.0	1476.2	1348.6	1898.0	1731.5	1126.6	1098.8
30489.7	67.5°	20672.4	6881.5	921.2	921.2	1437.4	1326.4	1920.2	1731.5	1148.8	1137.7
26910.1	70°	18219.4	5577.4	943.4	910.1	1270.9	1259.8	2042.3	1825.8	1320.8	1331.9
19767.8	72.5°	13868.5	4228.8	937.9	910.1	1104.4	1204.3	2058.9	1886.9	1437.4	1331.9
11071.5	75°	7880.5	2530.6	826.9	793.6	871.3	1048.9	1925.7	1798.1	1398.5	1193.2
4423.1	77.5°	3257.6	1304.2	760.3	715.9	721.5	854.6	1603.8	1676.0	1331.9	1015.6
1476.2	80°	1215.4	782.5	610.5	571.6	555.0	627.1	1143.2	1337.5	1137.7	832.4
649.3	82.5°	632.7	488.4	416.2	416.2	377.4	399.6	616.0	887.9	860.2	571.6
260.8	85°	321.9	277.5	238.6	233.1	210.9	188.7	310.8	527.2	493.9	316.3
116.5	87.5°	172.0	155.4	99.9	94.3	77.7	49.9	55.5	105.4	172.0	138.7
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>
7364.4
8135.8
8407.7
7863.8
6909.3
5971.4
4889.2
4123.4
3651.7
3396.4
3168.8
2885.8
2525.1
1986.8
1420.7
943.4
571.6
460.6
610.5
771.4
849.1
654.9
865.7
821.3
749.2
921.2
899.0
<i>1082.2</i>
1115.5
1232.0
1182.1
1065.5
960.1
760.3
449.5
260.8
99.9
0.0

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