

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: P477560

Luminaire Tested: **IFLD-L-SA7D-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477560  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

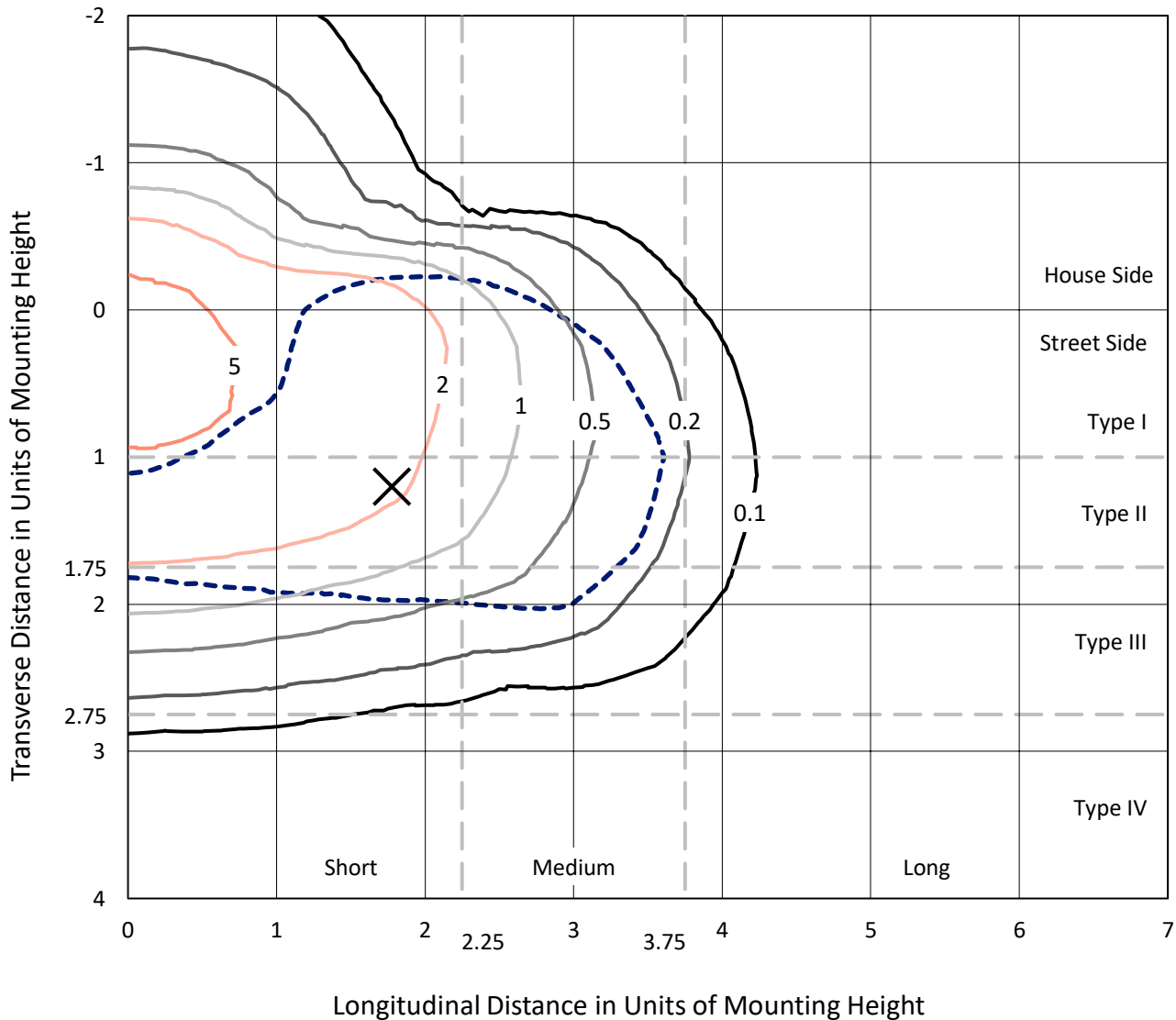
Lumens per Lamp: N/A  
Luminaire Lumens: 39477.7 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

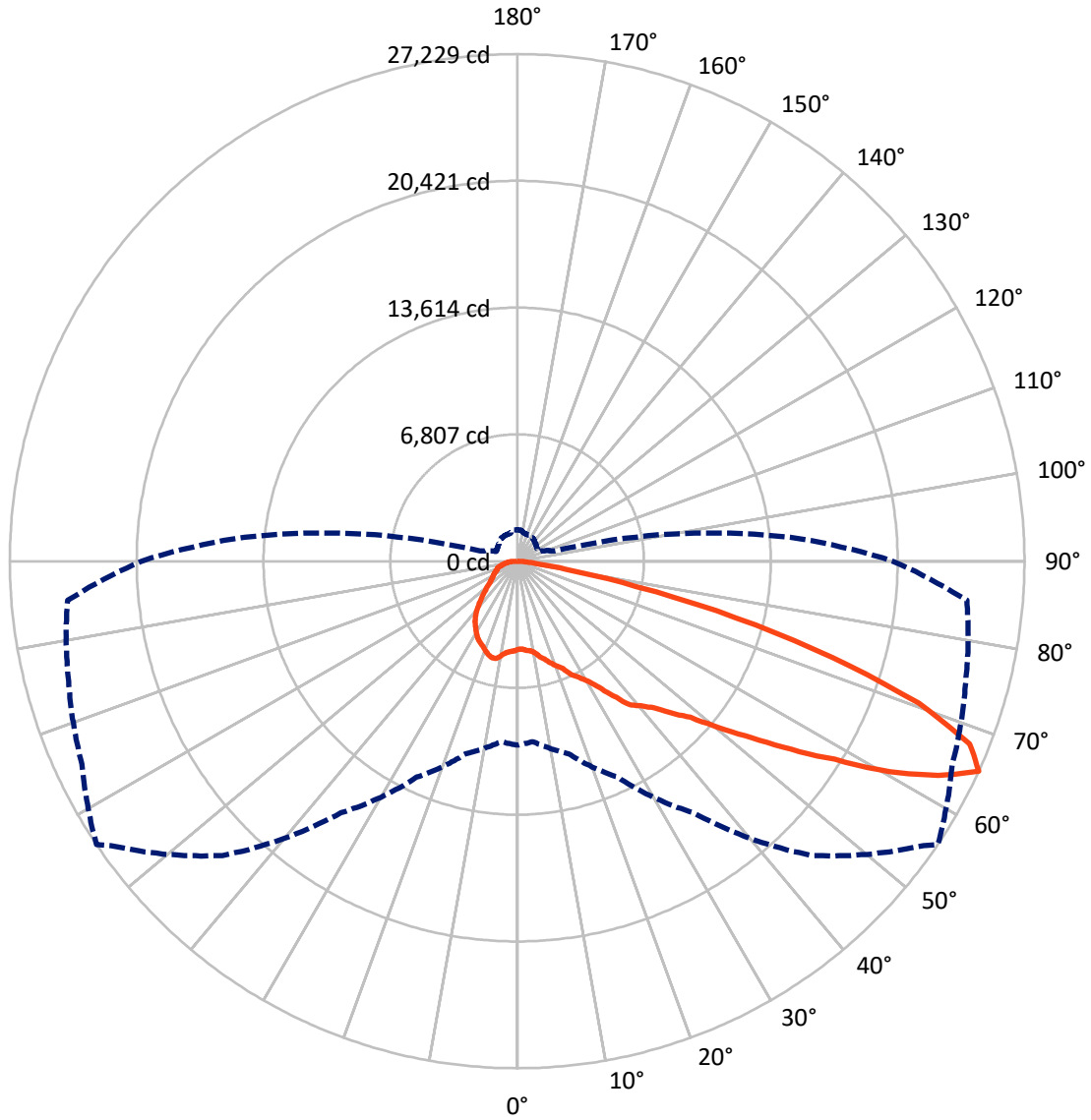
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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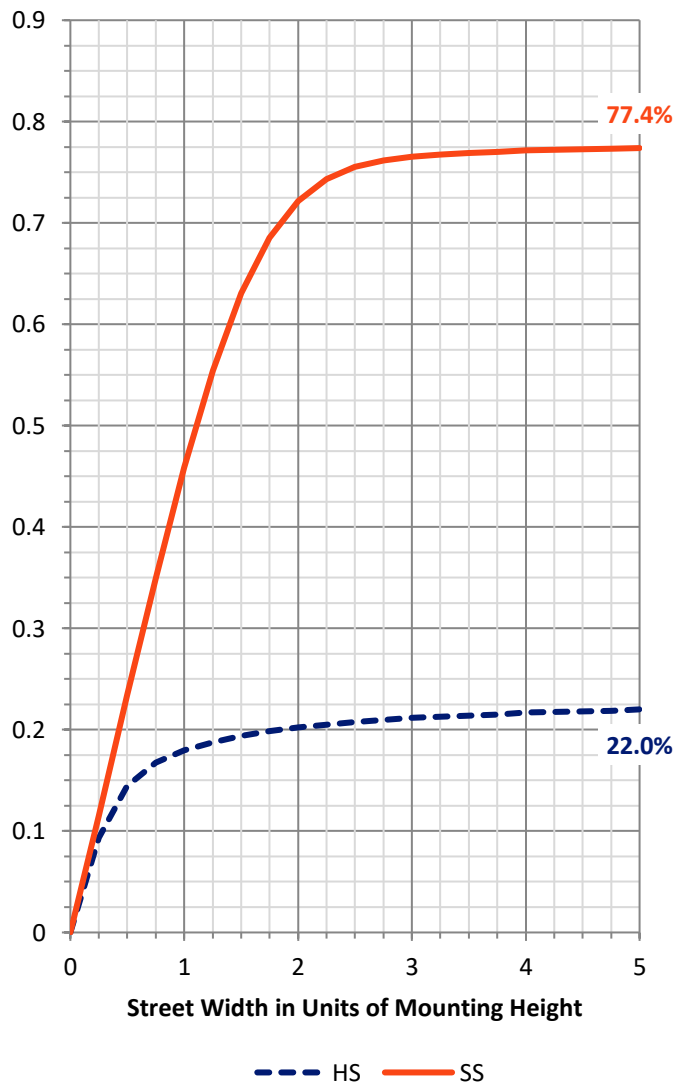
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8853.6	0.0	8853.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	30624.1	0.0	30624.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	39477.7	0.0	39477.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.6	1.2
10°-20°	1524.7	3.9
20°-30°	2714.9	6.9
30°-40°	4065.5	10.3
40°-50°	6023.5	15.3
50°-60°	9281.4	23.5
60°-70°	10507.6	26.6
70°-80°	4360.8	11.0
80°-90°	529.8	1.3
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°	39477.7	100.0
0°-180°	39477.7	100.0

**Coefficient of Utilization**

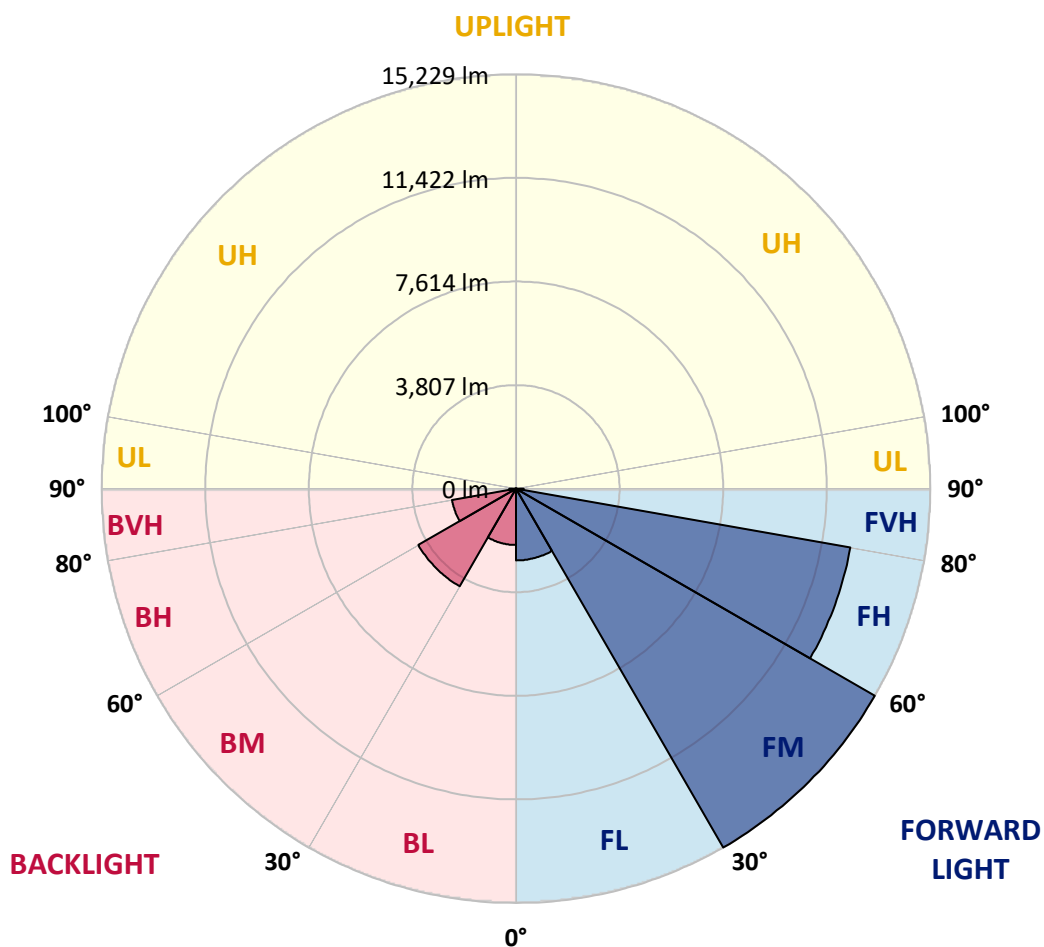


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.3	6.7			
FM (30°-60°)	15228.8	38.6			
FH (60°-80°)	12477.6	31.6			G5
FVH (80°-90°)	279.4	0.7			G3/500
BL (0°-30°)	2070.9	5.2	B3/2500		
BM (30°-60°)	4141.5	10.5	B3/5000		
BH (60°-80°)	2390.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	250.3	0.6			G3/500
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°	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5
2.5°	4614.5	4639.3	4622.8	4672.4	4713.7	4713.7	4746.7	4721.9	4755.0	4800.4
5°	4767.4	4668.2	4721.9	4746.7	4734.3	4755.0	4721.9	4804.5	4750.8	4837.6
7.5°	4804.5	4841.7	4887.2	4845.9	4883.0	4862.4	4866.5	4854.1	4825.2	4895.4
10°	5077.2	5023.5	5126.8	5064.8	5056.6	5048.3	5031.8	4969.8	5040.0	5044.2
12.5°	5391.2	5341.6	5337.5	5287.9	5354.0	5234.2	5259.0	5225.9	5238.3	5254.8
15°	5618.4	5597.7	5692.8	5634.9	5548.2	5494.5	5552.3	5461.4	5506.8	5498.6
17.5°	6068.7	6064.6	5994.3	5899.3	5849.7	5771.2	5758.8	5721.7	5754.7	5738.2
20°	6382.7	6428.1	6440.5	6329.0	6138.9	6052.2	6031.5	6002.6	6039.8	6027.4
22.5°	6861.9	6791.6	6845.3	6651.2	6581.0	6374.4	6300.0	6258.7	6436.4	6390.9
25°	7167.6	7241.9	7188.2	7122.1	6965.2	6709.0	6655.3	6746.2	6816.4	6766.9
27.5°	7857.5	7783.1	7733.5	7535.3	7432.0	7163.4	7101.5	7068.4	7085.0	7113.9
30°	8382.1	8423.5	8311.9	8171.5	7911.2	7638.5	7493.9	7465.0	7407.2	7357.6
32.5°	9129.9	9067.9	9001.8	8910.9	8687.8	8328.4	8188.0	8080.6	7907.1	7675.7
35°	9489.3	9666.9	9617.4	9373.6	9204.2	9067.9	9026.6	8861.4	8716.8	8353.2
37.5°	10088.3	10162.7	10092.4	10014.0	9935.5	9790.9	9741.3	9786.7	9501.7	8902.7
40°	10476.6	10633.6	10778.2	10559.3	10542.7	10571.7	10266.0	10212.2	9625.6	9311.7
42.5°	11269.8	11335.9	11364.8	11356.6	11451.6	11451.6	10869.1	10753.4	10336.2	10080.1
45°	12319.1	12372.8	12476.1	12550.5	12443.1	12496.8	11666.4	11621.0	11249.2	11199.6
47.5°	13228.0	13356.1	13587.4	13806.4	13946.8	13765.1	12856.2	12534.0	12438.9	12736.4
50°	14021.2	13868.3	14409.5	14632.6	15248.1	15549.7	14169.9	14041.8	13889.0	14459.1
52.5°	14099.7	14306.2	15070.5	15516.7	16784.9	17342.6	15781.1	15727.4	15541.5	16198.3
55°	14661.5	14636.7	15405.1	16371.8	17879.7	18817.5	17879.7	17846.6	17441.8	18065.6
57.5°	14566.5	14818.5	15425.8	16776.7	18867.0	20399.7	20313.0	20085.7	19519.8	20027.9
60°	14244.3	14310.4	15049.8	16764.3	19441.3	22023.3	22940.4	22985.8	21829.1	22233.9
62.5°	12418.3	12571.1	13508.9	15446.4	19032.3	23142.8	25505.8	25344.7	24419.3	23956.6
65°	9877.6	9724.8	10699.7	12794.2	16487.5	22349.6	26629.5	27228.5	25774.4	24927.5
67.5°	6056.3	6019.1	6956.9	8803.5	12335.7	19019.9	25733.0	26199.9	25398.4	24720.9
70°	3119.0	3024.0	3610.6	4912.0	7754.2	13955.1	22395.1	22853.6	23617.9	22172.0
72.5°	1454.2	1433.5	1747.5	2416.7	3949.4	8204.5	17342.6	17673.1	19284.3	18693.5
75°	855.2	867.5	1045.2	1264.1	1925.1	3866.8	11509.4	12149.8	13897.3	13471.7
77.5°	640.3	640.3	743.6	879.9	1123.7	1495.5	5680.4	6527.2	8126.0	7308.0
80°	471.0	479.2	570.1	661.0	780.8	772.5	2255.6	2643.9	3726.3	3185.1
82.5°	367.7	380.1	442.0	491.6	549.4	466.8	925.4	995.6	1532.7	1218.7
85°	256.1	264.4	347.0	334.6	334.6	260.3	384.2	404.9	607.3	578.4
87.5°	62.0	70.2	169.4	185.9	140.5	78.5	119.8	136.3	219.0	252.0
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°
4738.5	0°	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5	4738.5
4821.1	2.5°	4759.1	4775.6	4845.9	4808.7	4829.3	4742.6	4812.8	4755.0	4804.5	4779.8
4858.3	5°	4891.3	4854.1	4895.4	4866.5	4866.5	4899.6	4949.1	4912.0	4986.3	4953.3
4887.2	7.5°	4945.0	4949.1	4973.9	4978.1	4957.4	5060.7	5064.8	5052.4	5122.6	5106.1
5085.5	10°	5077.2	5081.3	5126.8	5151.6	5130.9	5168.1	5126.8	5093.7	5089.6	5073.1
5242.5	12.5°	5287.9	5329.2	5320.9	5341.6	5345.7	5188.7	5093.7	4932.6	4912.0	4932.6
5473.8	15°	5482.1	5465.5	5473.8	5515.1	5341.6	5089.6	4920.2	4783.9	4792.2	4796.3
5775.4	17.5°	5713.4	5725.8	5738.2	5548.2	5230.1	4932.6	4783.9	4783.9	4742.6	4759.1
5986.1	20°	5977.8	5928.2	5820.8	5552.3	5035.9	4750.8	4705.4	4705.4	4655.8	4622.8
6213.3	22.5°	6184.4	6085.2	5924.1	5424.2	4862.4	4680.6	4569.1	4490.6	4432.7	4366.6
6465.3	25°	6316.6	6262.9	5948.9	5292.0	4734.3	4494.7	4329.5	4209.7	4135.3	4048.5
6663.6	27.5°	6519.0	6415.7	6019.1	5139.2	4593.9	4308.8	4052.7	3866.8	3726.3	3635.4
6965.2	30°	6791.6	6642.9	5969.5	4920.2	4379.0	3986.6	3685.0	3445.4	3284.3	3209.9
7250.2	32.5°	7014.7	6820.6	5928.2	4721.9	4139.4	3660.2	3259.5	3015.8	2924.9	2829.9
7729.4	35°	7440.2	7056.0	5899.3	4610.4	3924.6	3333.9	2912.5	2701.8	2586.1	2445.7
8014.5	37.5°	7766.6	7465.0	5829.1	4379.0	3647.8	3015.8	2648.1	2458.0	2284.5	2135.8
8675.5	40°	8278.9	8035.1	5833.2	4052.7	3321.5	2743.1	2441.5	2243.2	2024.3	1896.2
9654.5	42.5°	9241.4	8597.0	5858.0	3792.4	2953.8	2520.0	2255.6	2020.1	1801.2	1693.8
10770.0	45°	10422.9	9369.5	5705.1	3556.9	2577.8	2309.3	2032.5	1797.1	1656.6	1578.1
12286.1	47.5°	11782.1	10125.5	5498.6	3114.9	2263.9	2086.2	1826.0	1689.6	1586.4	1540.9
14240.1	50°	13302.4	11207.9	5440.7	2710.0	2020.1	1896.2	1726.8	1623.5	1553.3	1499.6
16442.1	52.5°	15260.5	12467.9	5325.1	2292.8	1809.5	1743.4	1689.6	1619.4	1557.5	1512.0
18495.2	55°	17132.0	13864.2	5201.1	1949.9	1660.7	1669.0	1697.9	1635.9	1582.2	1512.0
20796.3	57.5°	19238.9	15289.5	4742.6	1697.9	1549.2	1631.8	1689.6	1619.4	1565.7	1512.0
23151.1	60°	20540.2	16090.9	3846.1	1479.0	1450.0	1561.6	1640.1	1565.7	1507.9	1528.5
24233.4	62.5°	21069.0	15669.5	2900.1	1342.6	1379.8	1466.6	1561.6	1532.7	1491.4	1569.8
24221.0	65°	20168.4	14698.7	2073.8	1227.0	1284.8	1371.5	1491.4	1524.4	1536.8	1689.6
22246.3	67.5°	17945.8	12798.4	1524.4	1131.9	1185.6	1313.7	1540.9	1594.6	1586.4	1776.4
18668.8	70°	14359.9	10009.8	1189.8	1053.4	1148.5	1359.2	1611.2	1611.2	1553.3	1776.4
14240.1	72.5°	10447.7	7056.0	1024.5	962.6	1053.4	1247.6	1602.9	1598.8	1524.4	1623.5
9067.9	75°	6324.8	4106.4	904.7	871.7	904.7	1070.0	1532.7	1507.9	1404.6	1396.3
4362.5	77.5°	3152.1	2065.6	739.5	772.5	789.1	896.5	1346.8	1383.9	1243.5	1210.4
1722.7	80°	1330.2	900.6	615.5	665.1	665.1	756.0	1119.5	1144.3	1032.8	970.8
681.6	82.5°	607.3	516.4	524.7	578.4	541.2	586.6	888.2	917.1	838.6	735.3
289.2	85°	256.1	293.3	400.7	454.4	400.7	380.1	611.4	644.5	545.3	454.4
123.9	87.5°	115.7	161.1	252.0	330.5	202.4	177.6	326.4	338.8	272.7	202.4
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>
4738.5
4734.3
4907.8
5081.3
5073.1
4940.9
4854.1
4763.2
4573.2
4329.5
4065.1
3676.7
3251.2
2825.7
2433.3
2139.9
1908.6
1702.0
1594.6
1532.7
1507.9
1507.9
1507.9
1507.9
1512.0
1549.2
1689.6
1788.8
1739.2
1565.7
1379.8
1189.8
950.2
718.8
458.6
190.0
0.0

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