

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: P477792

Luminaire Tested: **IFLD-L-SA7B-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477792  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

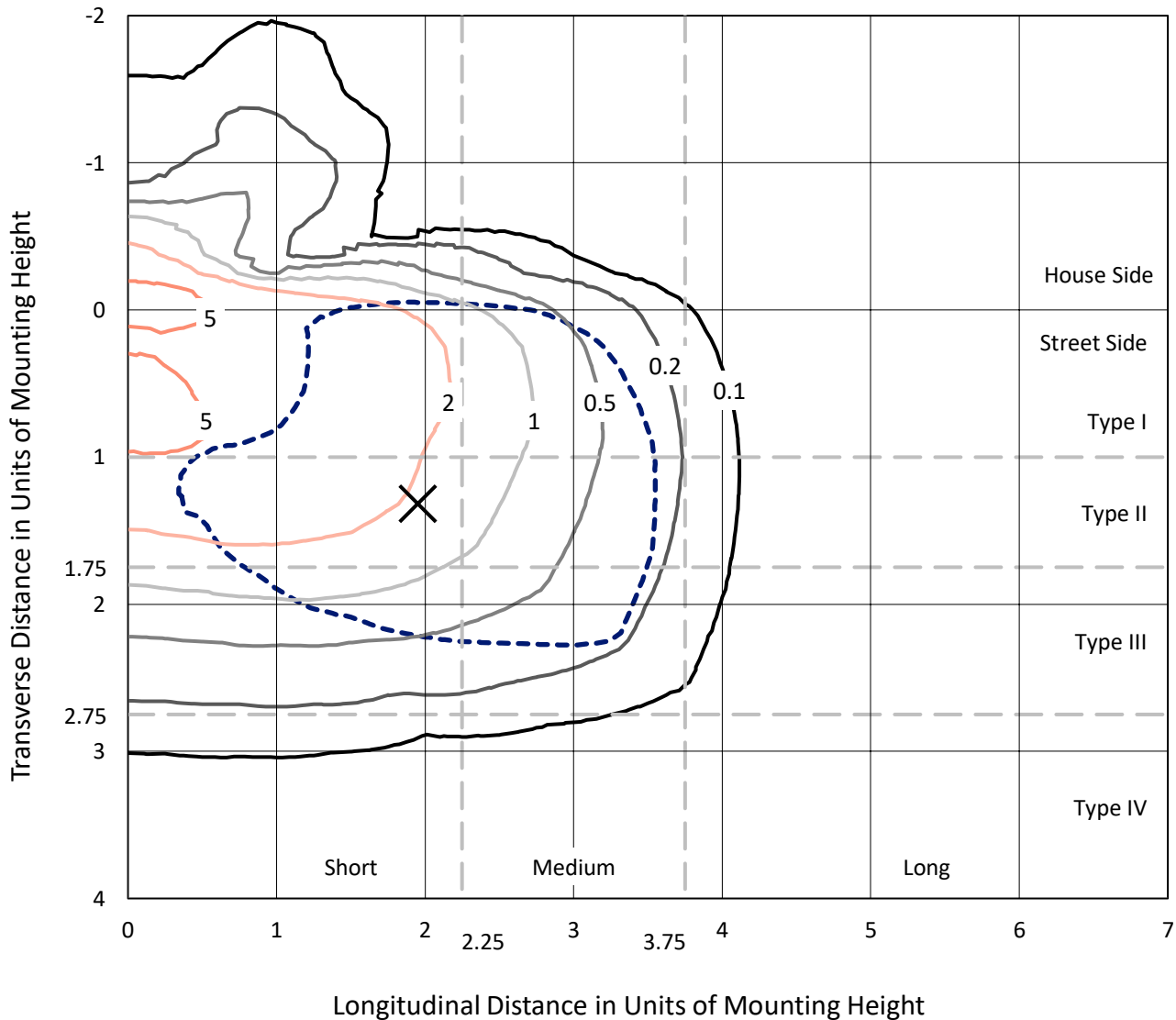
Lumens per Lamp: N/A  
Luminaire Lumens: 34981.6 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

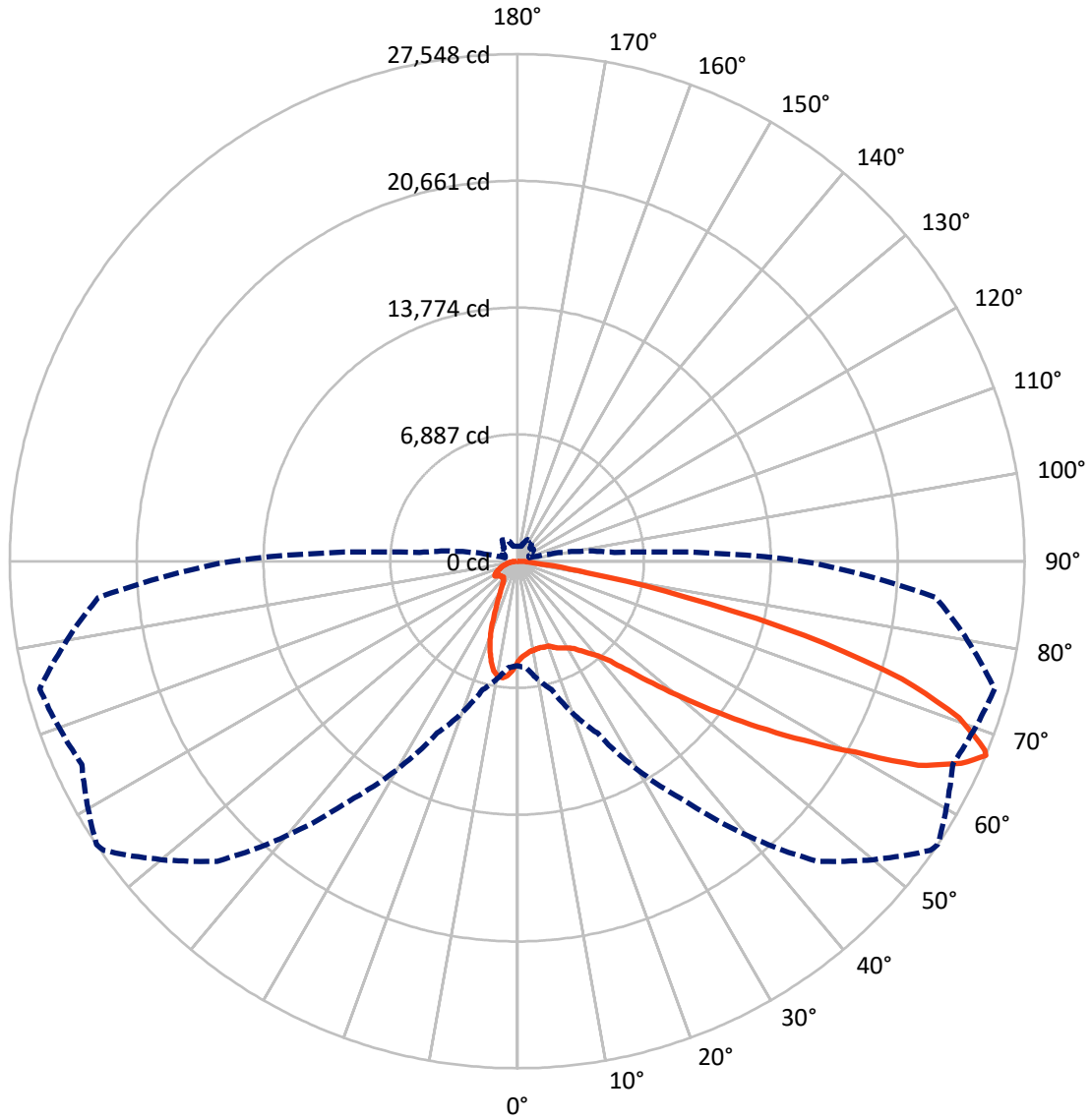
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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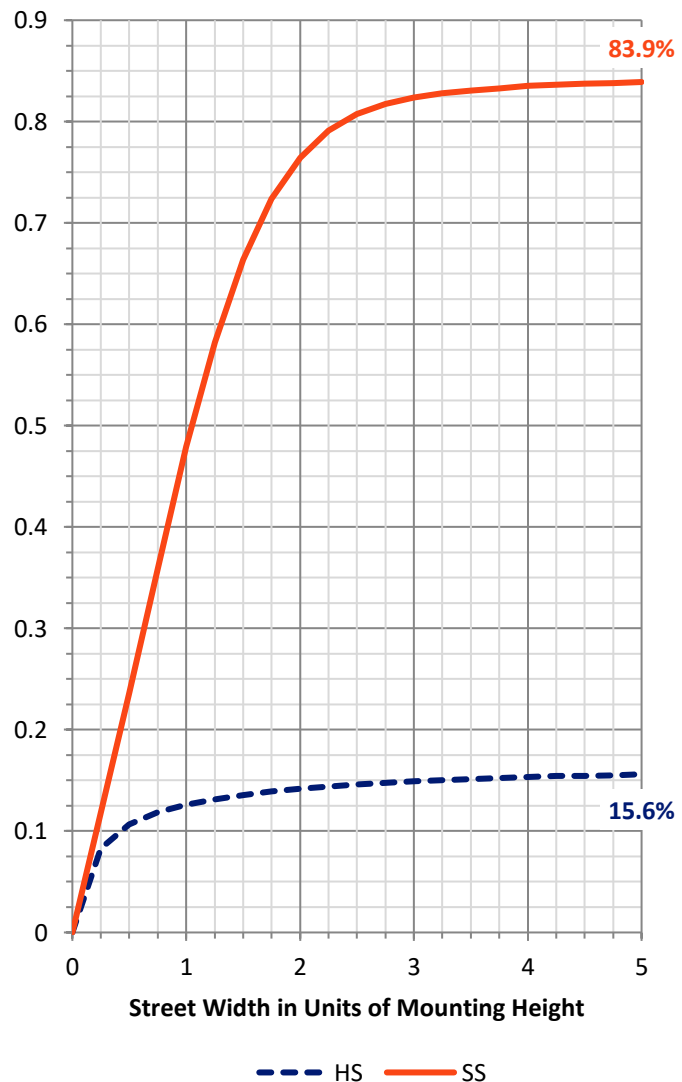
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5538.0	0.0	5538.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	29443.7	0.0	29443.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	34981.6	0.0	34981.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.4	1.5
10°-20°	1430.5	4.1
20°-30°	2243.5	6.4
30°-40°	3202.7	9.2
40°-50°	4833.7	13.8
50°-60°	7694.5	22.0
60°-70°	9836.8	28.1
70°-80°	4796.1	13.7
80°-90°	419.6	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°	34981.6	100.0
0°-180°	34981.6	100.0

**Coefficient of Utilization**

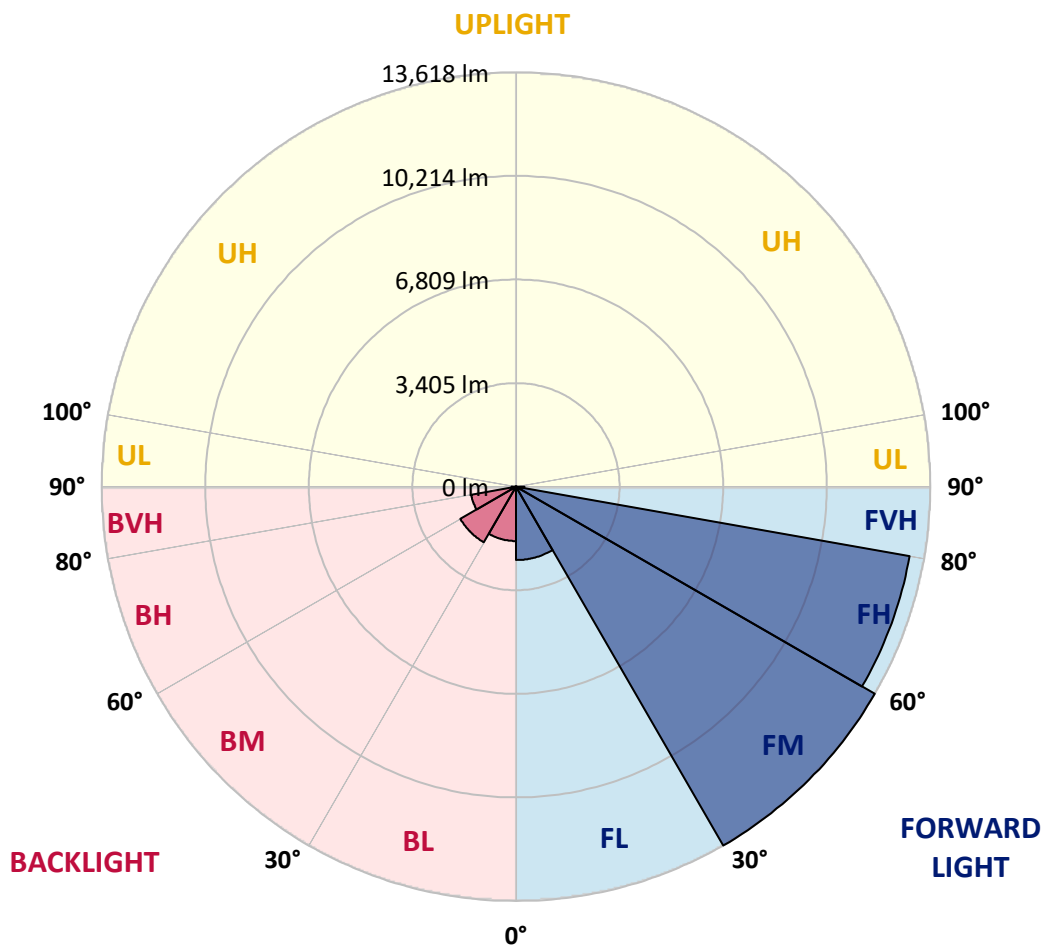


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2410.6	6.9			
FM (30°-60°)	13618.0	38.9			
FH (60°-80°)	13136.4	37.6			G5
FVH (80°-90°)	278.6	0.8			G3/500
BL (0°-30°)	1787.8	5.1	B3/2500		
BM (30°-60°)	2112.8	6.0	B2/2500		
BH (60°-80°)	1496.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	140.9	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°	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0
2.5°	5000.1	4979.5	5004.2	4979.5	5090.3	5155.9	5176.4	5205.1	5307.7	5406.1
5°	4790.9	4700.6	4799.1	4831.9	4840.1	4950.8	5065.7	5086.2	5139.5	5299.5
7.5°	4442.2	4544.8	4507.8	4606.3	4708.8	4819.6	5008.3	4954.9	5151.8	5303.6
10°	4368.4	4376.6	4417.6	4454.5	4544.8	4688.3	4950.8	4918.0	5119.0	5443.0
12.5°	4442.2	4442.2	4429.9	4401.2	4503.7	4643.2	4852.4	4868.8	5184.6	5484.1
15°	4700.6	4749.9	4618.6	4639.1	4598.1	4643.2	4827.8	4864.7	5209.2	5516.9
17.5°	5332.3	5315.9	5160.0	4942.6	4762.2	4733.4	4860.6	4901.6	5184.6	5611.2
20°	5947.6	5914.8	5644.0	5418.4	5061.6	4893.4	4913.9	4918.0	5225.7	5672.7
22.5°	6632.6	6718.7	6423.4	5964.0	5521.0	5102.6	5020.6	5086.2	5320.0	5705.6
25°	7707.2	7522.6	7268.3	6665.4	5951.7	5426.6	5196.9	5229.8	5410.2	5787.6
27.5°	8482.5	8408.6	8010.8	7522.6	6554.6	5681.0	5291.3	5352.8	5574.3	5783.5
30°	9229.0	9229.0	8987.0	8256.9	7190.4	6107.5	5492.3	5463.6	5496.4	5775.3
32.5°	10102.7	9983.7	9635.1	9151.1	7990.2	6497.2	5652.2	5660.4	5660.4	5927.1
35°	10562.1	10754.8	10521.0	9733.5	8601.4	7145.3	6037.8	5976.3	5931.2	6095.2
37.5°	11234.7	11349.6	11103.5	10640.0	9360.2	7670.3	6378.3	6329.0	6066.5	6226.5
40°	11640.8	11620.3	11612.1	11398.8	10365.2	8289.7	6878.7	6751.5	6398.8	6690.0
42.5°	11870.5	11829.5	12334.0	12202.8	11312.7	9200.3	7506.2	7436.5	7046.8	7514.4
45°	12128.9	12432.5	12846.7	13215.9	12416.1	10480.0	8568.6	8470.2	8121.5	8716.3
47.5°	12354.5	12727.8	13256.9	13650.7	13412.8	11870.5	9881.2	9905.8	9676.1	10287.2
50°	12731.9	12768.8	13486.6	14282.4	14466.9	13154.4	11644.9	11603.9	11501.4	12358.6
52.5°	12617.0	12727.8	13634.3	14651.5	14955.1	14512.1	13539.9	13663.0	13527.6	14606.4
55°	10746.6	11078.9	13544.0	15041.2	16111.8	16046.1	15976.4	15894.4	15886.2	17133.1
57.5°	9897.6	10168.3	11932.1	15471.9	17350.5	17834.5	18285.7	18375.9	18371.8	19877.2
60°	9339.7	9618.7	11279.9	15238.1	18404.6	20176.6	21042.1	21054.4	21029.8	22809.9
62.5°	8248.7	8519.4	10151.9	13958.3	18695.9	22338.2	24266.1	24426.0	23298.1	25336.6
65°	6936.1	7157.6	8597.3	12001.8	17920.6	23712.3	26690.2	26501.5	25209.5	26780.5
67°	5672.7	5820.4	7223.2	10303.6	15894.4	23052.0	27391.6	27547.5	26091.4	26842.0
67.5°	5311.8	5447.2	6772.0	9725.3	15123.2	22551.5	27416.2	27391.6	26107.8	26854.3
70°	3687.5	3744.9	4614.5	6690.0	11140.4	19052.7	25414.6	25472.0	25012.6	25398.2
72.5°	2444.7	2530.8	3084.5	4216.6	6566.9	13864.0	21243.1	21858.3	21567.1	20824.7
75°	1575.1	1624.3	2018.1	2510.3	3232.2	7895.9	15693.4	16103.6	15435.0	12879.6
77.5°	881.9	935.2	1218.2	1525.9	1575.1	3285.5	8814.7	9323.3	7900.0	5471.8
80°	549.6	619.4	918.8	906.5	750.6	1205.9	3634.2	3892.6	3158.4	1882.7
82.5°	414.3	467.6	709.6	635.8	422.5	537.3	1361.8	1460.2	1156.7	726.0
85°	283.0	356.9	512.7	393.8	221.5	258.4	541.4	582.5	529.1	352.8
87.5°	102.5	151.8	266.6	196.9	98.4	77.9	176.4	196.9	188.7	160.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477792  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5443.0	0°	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0	5443.0
5492.3	2.5°	5570.2	5627.6	5656.3	5824.5	5894.2	5881.9	5898.3	5923.0	5947.6	5980.4
5562.0	5°	5615.3	5791.7	5886.0	6082.9	6214.2	6156.8	6230.6	6210.1	6181.4	6177.3
5689.2	7.5°	5763.0	5988.6	6271.6	6324.9	6382.4	6238.8	6115.7	5947.6	5906.5	5763.0
5795.8	10°	6025.5	6210.1	6554.6	6575.1	6320.8	5951.7	5676.9	5328.2	5324.1	5114.9
5959.9	12.5°	6275.7	6484.9	6763.8	6644.9	6037.8	5533.3	5086.2	4704.7	4544.8	4438.1
6058.3	15°	6431.6	6776.1	6923.8	6411.1	5541.5	4860.6	4282.2	3872.1	3708.0	3630.1
6181.4	17.5°	6575.1	7055.0	6989.4	6000.9	4930.3	4167.4	3478.3	3121.4	3076.3	3018.9
6378.3	20°	6772.0	7157.6	6755.6	5467.7	4237.1	3273.2	2834.3	2662.0	2703.1	2727.7
6398.8	22.5°	6956.6	7210.9	6460.3	4885.2	3347.0	2592.3	2374.9	2411.8	2473.4	2555.4
6448.0	25°	7038.6	7297.1	6062.4	4081.3	2547.2	2182.1	2132.9	2194.4	2297.0	2301.1
6517.7	27.5°	7092.0	7235.5	5582.5	3297.8	2014.0	1907.3	1981.2	2026.3	2038.6	2087.8
6665.4	30°	7186.3	7108.4	4975.4	2358.5	1689.9	1694.0	1788.4	1788.4	1788.4	1825.3
6813.0	32.5°	7350.4	7022.2	4265.8	1722.7	1456.1	1587.4	1562.8	1554.6	1538.2	1493.0
7001.7	35°	7452.9	6788.4	3367.6	1275.7	1308.5	1456.1	1447.9	1320.8	1107.5	1000.8
7481.6	37.5°	7666.2	6669.5	2477.5	984.4	1222.3	1390.5	1345.4	1037.7	803.9	701.4
8076.4	40°	8125.6	6591.5	1714.5	861.4	1164.9	1357.7	1201.8	886.0	615.3	434.8
8995.2	42.5°	8687.6	6595.6	1164.9	812.2	1169.0	1427.4	1156.7	758.8	434.8	348.7
10221.6	45°	9442.3	6534.1	799.8	812.2	1242.8	1542.3	1185.4	689.1	422.5	443.0
11759.8	47.5°	10254.4	6587.4	594.8	738.3	1255.1	1546.4	1082.9	676.8	406.1	512.7
13433.3	50°	11201.9	6640.8	492.2	680.9	1259.2	1497.1	996.7	660.4	422.5	541.4
15352.9	52.5°	12178.2	6808.9	418.4	644.0	1308.5	1476.6	996.7	685.0	422.5	471.7
17797.6	55°	13634.3	7239.6	603.0	803.9	1488.9	1612.0	1226.4	959.8	590.7	607.1
20139.7	57.5°	15242.2	7682.6	672.7	845.0	1530.0	1452.0	1320.8	1058.3	623.5	627.6
21960.9	60°	16300.4	7699.0	668.6	824.5	1431.5	1255.1	1292.1	1115.7	635.8	537.3
23088.9	62.5°	16722.9	7198.6	697.3	824.5	1333.1	1173.1	1324.9	1201.8	656.3	672.7
23408.8	65°	16243.0	6165.0	672.7	738.3	1173.1	1050.1	1333.1	1218.2	717.8	676.8
22834.6	67°	15492.4	5311.8	685.0	701.4	1091.1	996.7	1402.8	1279.8	832.7	812.2
22535.1	67.5°	15279.1	5086.2	680.9	680.9	1062.4	980.3	1419.2	1279.8	849.1	840.9
19889.5	70°	13466.1	4122.3	697.3	672.7	939.3	931.1	1509.5	1349.5	976.2	984.4
14610.5	72.5°	10250.3	3125.5	693.2	672.7	816.3	890.1	1521.8	1394.6	1062.4	984.4
8183.0	75°	5824.5	1870.4	611.2	586.6	644.0	775.2	1423.3	1329.0	1033.6	881.9
3269.1	77.5°	2407.7	963.9	561.9	529.1	533.2	631.7	1185.4	1238.7	984.4	750.6
1091.1	80°	898.3	578.3	451.2	422.5	410.2	463.5	845.0	988.5	840.9	615.3
479.9	82.5°	467.6	361.0	307.6	307.6	278.9	295.3	455.3	656.3	635.8	422.5
192.8	85°	237.9	205.1	176.4	172.3	155.9	139.5	229.7	389.7	365.1	233.8
86.1	87.5°	127.2	114.8	73.8	69.7	57.4	36.9	41.0	77.9	127.2	102.5
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>
5443.0
6013.2
6214.2
5812.2
5106.7
4413.5
3613.7
3047.6
2699.0
2510.3
2342.1
2132.9
1866.3
1468.4
1050.1
697.3
422.5
340.4
451.2
570.1
627.6
484.0
639.9
607.1
553.7
680.9
664.5
799.8
824.5
910.6
873.7
787.5
709.6
561.9
332.2
192.8
73.8
0.0

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