

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: P477367

Luminaire Tested: **IFLD-L-SA8A-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477367  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

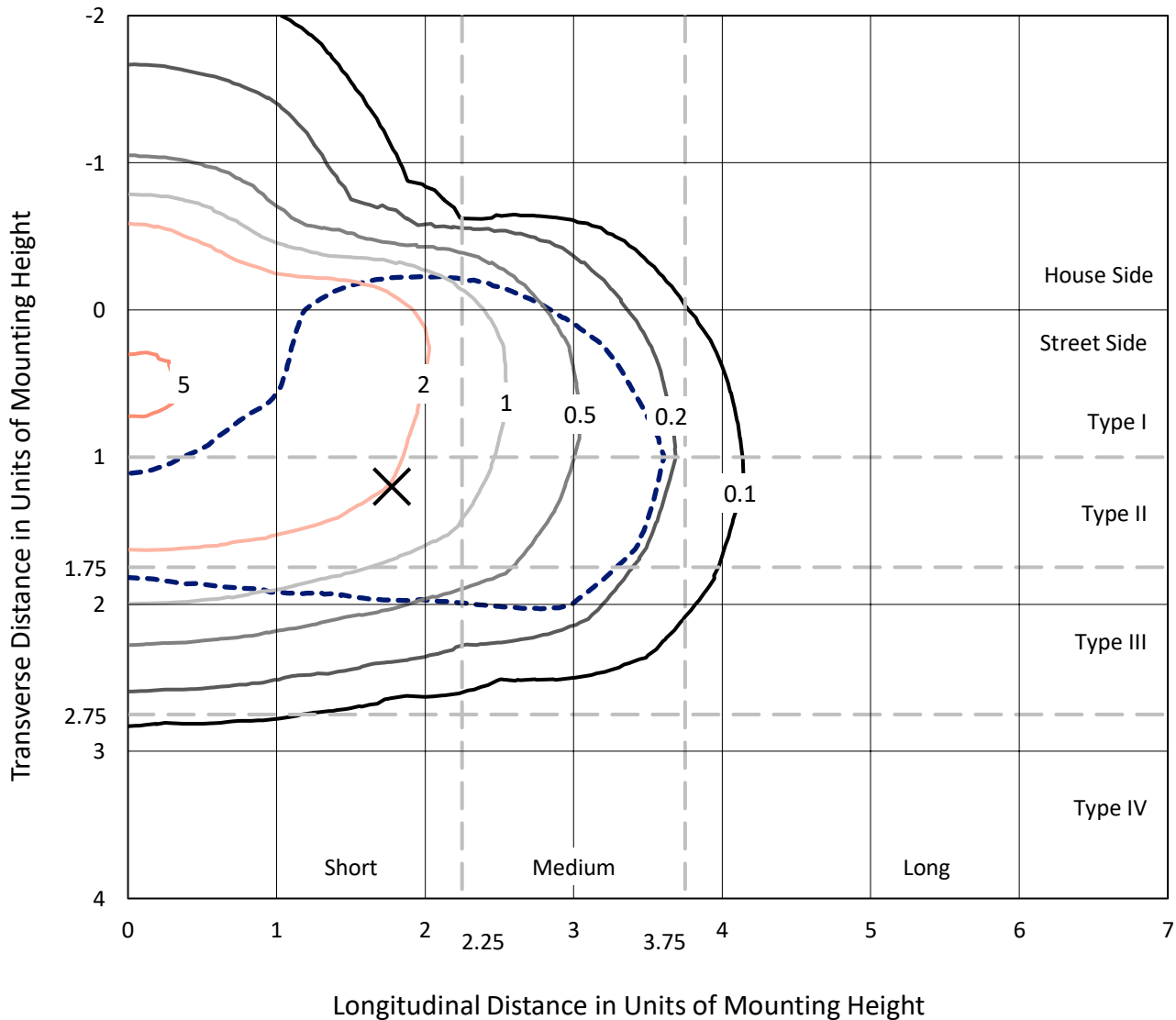
Lumens per Lamp: N/A  
Luminaire Lumens: 34412.7 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

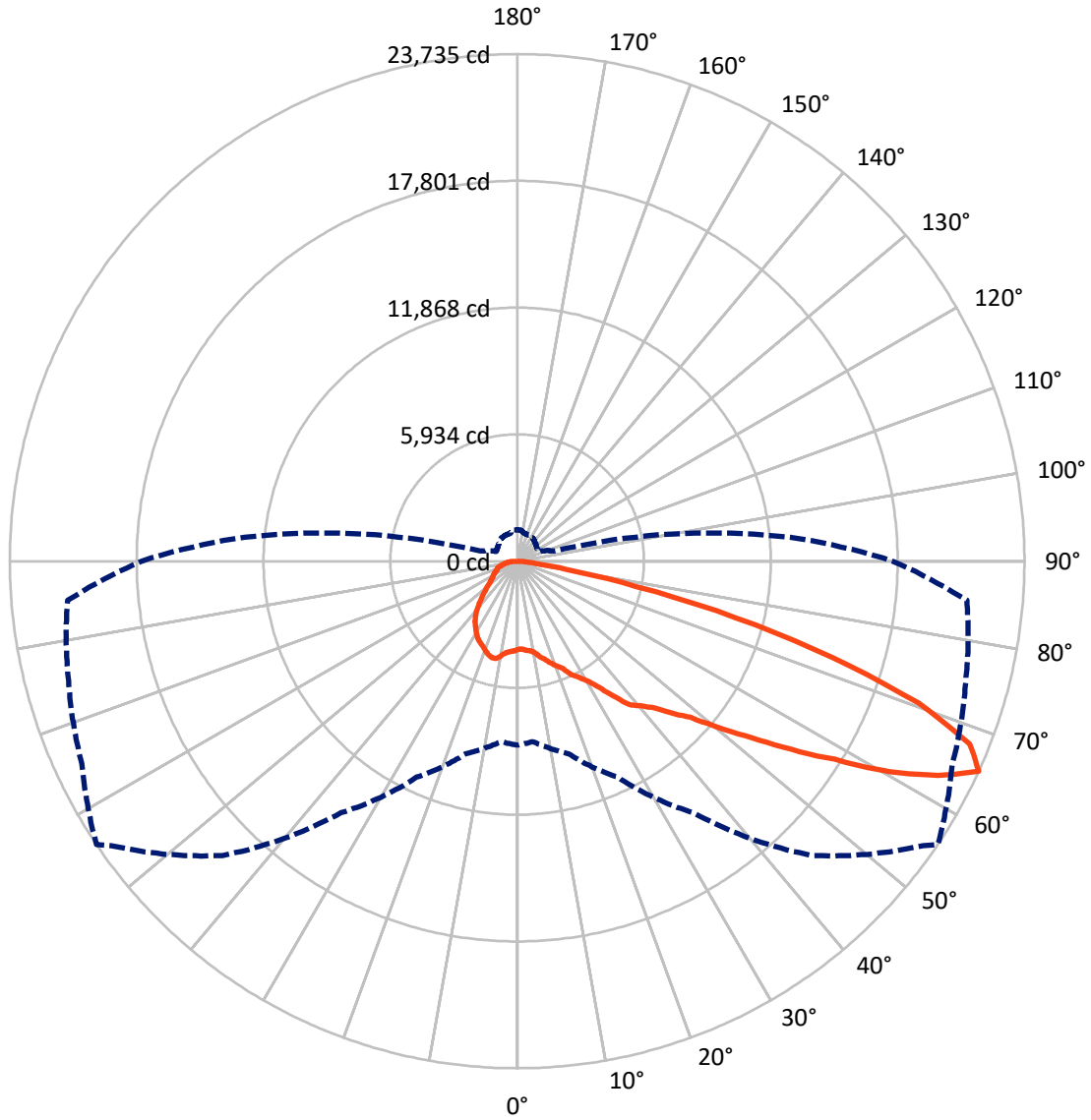
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	7717.6	0.0	7717.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	26695.0	0.0	26695.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	34412.7	0.0	34412.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.3	1.2
10°-20°	1329.1	3.9
20°-30°	2366.6	6.9
30°-40°	3543.9	10.3
40°-50°	5250.7	15.3
50°-60°	8090.5	23.5
60°-70°	9159.5	26.6
70°-80°	3801.3	11.0
80°-90°	461.8	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°	34412.7	100.0
0°-180°	34412.7	100.0

**Coefficient of Utilization**

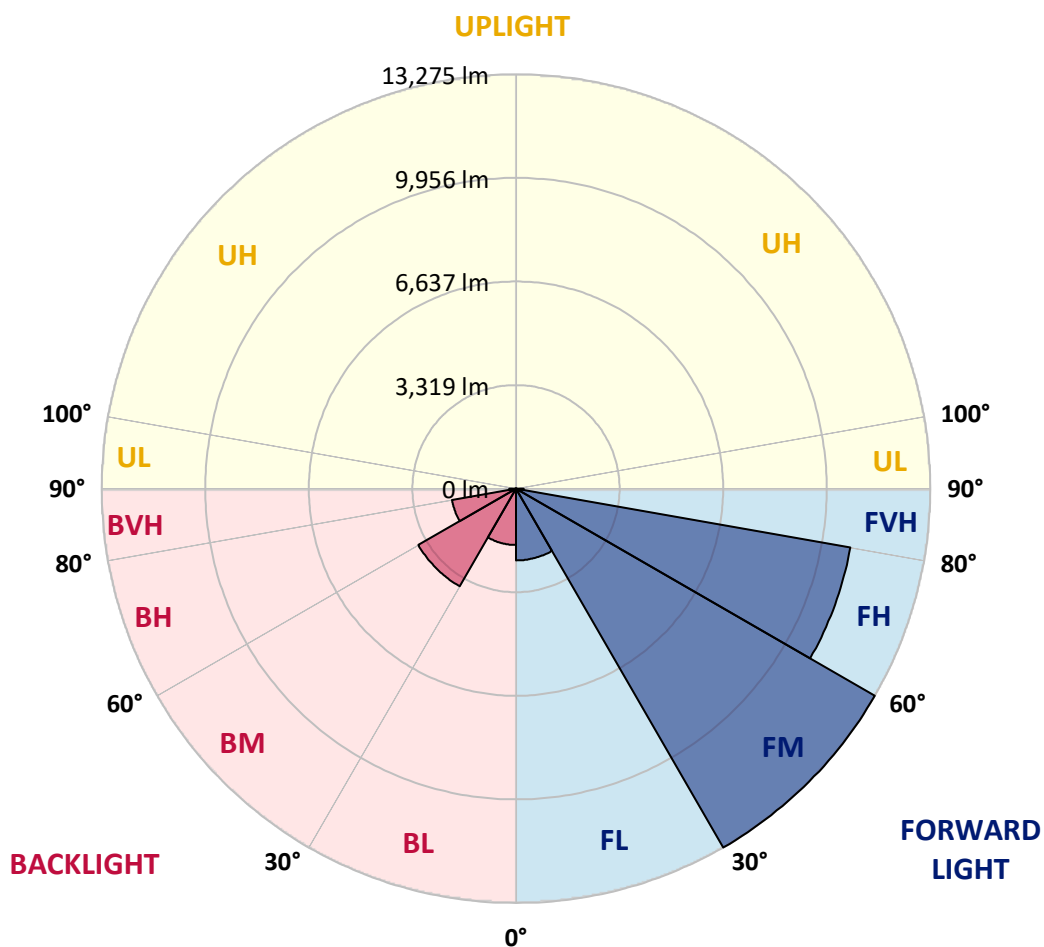


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2299.8	6.7			
FM (30°-60°)	13274.9	38.6			
FH (60°-80°)	10876.8	31.6			G4/12000
FVH (80°-90°)	243.6	0.7			G3/500
BL (0°-30°)	1805.2	5.2	B3/2500		
BM (30°-60°)	3610.2	10.5	B3/5000		
BH (60°-80°)	2084.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	218.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	4022.5	4044.1	4029.7	4072.9	4108.9	4108.9	4137.7	4116.1	4144.9	4184.5
5°	4155.7	4069.3	4116.1	4137.7	4126.9	4144.9	4116.1	4188.1	4141.3	4216.9
7.5°	4188.1	4220.5	4260.1	4224.1	4256.5	4238.5	4242.1	4231.3	4206.1	4267.3
10°	4425.8	4379.0	4469.0	4415.0	4407.8	4400.6	4386.2	4332.2	4393.4	4397.0
12.5°	4699.5	4656.3	4652.7	4609.5	4667.1	4562.6	4584.2	4555.4	4566.2	4580.6
15°	4897.5	4879.5	4962.4	4911.9	4836.3	4789.5	4839.9	4760.7	4800.3	4793.1
17.5°	5290.1	5286.5	5225.2	5142.4	5099.2	5030.8	5020.0	4987.6	5016.4	5002.0
20°	5563.8	5603.4	5614.2	5516.9	5351.3	5275.7	5257.7	5232.5	5264.9	5254.1
22.5°	5981.5	5920.3	5967.1	5797.8	5736.6	5556.6	5491.7	5455.7	5610.6	5571.0
25°	6248.0	6312.8	6266.0	6208.4	6071.5	5848.2	5801.4	5880.7	5941.9	5898.7
27.5°	6849.4	6784.5	6741.3	6568.5	6478.4	6244.4	6190.4	6161.5	6175.9	6201.2
30°	7306.7	7342.7	7245.5	7123.0	6896.2	6658.5	6532.5	6507.3	6456.8	6413.6
32.5°	7958.5	7904.5	7846.9	7767.7	7573.2	7259.9	7137.5	7043.8	6892.6	6690.9
35°	8271.8	8426.7	8383.4	8171.0	8023.3	7904.5	7868.5	7724.4	7598.4	7281.5
37.5°	8794.0	8858.8	8797.6	8729.2	8660.7	8534.7	8491.5	8531.1	8282.6	7760.4
40°	9132.5	9269.3	9395.4	9204.5	9190.1	9215.3	8948.8	8902.0	8390.6	8117.0
42.5°	9823.9	9881.5	9906.7	9899.5	9982.3	9982.3	9474.6	9373.8	9010.0	8786.8
45°	10738.6	10785.4	10875.4	10940.3	10846.6	10893.4	10169.6	10130.0	9805.9	9762.7
47.5°	11530.8	11642.5	11844.1	12035.0	12157.4	11999.0	11206.7	10925.8	10843.0	11102.3
50°	12222.3	12089.0	12560.8	12755.2	13291.8	13554.7	12351.9	12240.3	12107.0	12604.0
52.5°	12290.7	12470.7	13136.9	13525.9	14631.4	15117.6	13756.3	13709.5	13547.5	14120.1
55°	12780.4	12758.8	13428.6	14271.3	15585.7	16403.2	15585.7	15556.9	15204.0	15747.8
57.5°	12697.6	12917.3	13446.6	14624.2	16446.4	17782.4	17706.8	17508.7	17015.4	17458.3
60°	12416.7	12474.3	13118.9	14613.4	16946.9	19197.7	19997.1	20036.7	19028.4	19381.3
62.5°	10825.0	10958.3	11775.7	13464.6	16590.4	20173.6	22233.4	22093.0	21286.3	20883.0
65°	8610.3	8477.1	9326.9	11152.7	14372.1	19482.1	23212.9	23735.1	22467.5	21729.3
67.5°	5279.3	5246.9	6064.3	7674.0	10753.0	16579.6	22431.5	22838.4	22139.8	21549.2
70°	2718.9	2636.0	3147.4	4281.8	6759.3	12164.6	19521.8	19921.5	20587.7	19327.3
72.5°	1267.6	1249.6	1523.3	2106.7	3442.7	7151.9	15117.6	15405.7	16810.1	16295.1
75°	745.4	756.2	911.1	1101.9	1678.1	3370.7	10032.8	10590.9	12114.2	11743.3
77.5°	558.2	558.2	648.2	767.0	979.5	1303.6	4951.6	5689.8	7083.4	6370.4
80°	410.5	417.7	497.0	576.2	680.6	673.4	1966.2	2304.7	3248.2	2776.5
82.5°	320.5	331.3	385.3	428.5	479.0	406.9	806.7	867.9	1336.0	1062.3
85°	223.3	230.5	302.5	291.7	291.7	226.9	334.9	352.9	529.4	504.2
87.5°	54.0	61.2	147.6	162.1	122.4	68.4	104.4	118.8	190.9	219.7
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°
4130.5	0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
4202.5	2.5°	4148.5	4162.9	4224.1	4191.7	4209.7	4134.1	4195.3	4144.9	4188.1	4166.5
4234.9	5°	4263.7	4231.3	4267.3	4242.1	4242.1	4270.9	4314.2	4281.8	4346.6	4317.8
4260.1	7.5°	4310.6	4314.2	4335.8	4339.4	4321.4	4411.4	4415.0	4404.2	4465.4	4451.0
4433.0	10°	4425.8	4429.4	4469.0	4490.6	4472.6	4505.0	4469.0	4440.2	4436.6	4422.2
4569.8	12.5°	4609.5	4645.5	4638.3	4656.3	4659.9	4523.0	4440.2	4299.8	4281.8	4299.8
4771.5	15°	4778.7	4764.3	4771.5	4807.5	4656.3	4436.6	4289.0	4170.1	4177.3	4180.9
5034.4	17.5°	4980.4	4991.2	5002.0	4836.3	4559.0	4299.8	4170.1	4170.1	4134.1	4148.5
5218.0	20°	5210.8	5167.6	5074.0	4839.9	4389.8	4141.3	4101.7	4101.7	4058.5	4029.7
5416.1	22.5°	5390.9	5304.5	5164.0	4728.3	4238.5	4080.1	3982.9	3914.4	3864.0	3806.4
5635.8	25°	5506.1	5459.3	5185.6	4613.1	4126.9	3918.0	3774.0	3669.6	3604.7	3529.1
5808.6	27.5°	5682.6	5592.6	5246.9	4479.8	4004.5	3756.0	3532.7	3370.7	3248.2	3169.0
6071.5	30°	5920.3	5790.6	5203.6	4289.0	3817.2	3475.1	3212.2	3003.3	2862.9	2798.1
6320.0	32.5°	6114.7	5945.5	5167.6	4116.1	3608.3	3190.6	2841.3	2628.8	2549.6	2466.8
6737.7	35°	6485.6	6150.7	5142.4	4018.9	3421.1	2906.1	2538.8	2355.1	2254.3	2131.9
6986.2	37.5°	6770.1	6507.3	5081.2	3817.2	3179.8	2628.8	2308.3	2142.7	1991.4	1861.8
7562.4	40°	7216.7	7004.2	5084.8	3532.7	2895.3	2391.2	2128.3	1955.4	1764.6	1652.9
8415.9	42.5°	8055.7	7494.0	5106.4	3305.8	2574.8	2196.7	1966.2	1761.0	1570.1	1476.5
9388.2	45°	9085.7	8167.4	4973.2	3100.6	2247.1	2013.0	1771.8	1566.5	1444.1	1375.6
10709.8	47.5°	10270.4	8826.4	4793.1	2715.3	1973.4	1818.6	1591.7	1472.9	1382.8	1343.2
12413.1	50°	11595.7	9769.9	4742.7	2362.3	1761.0	1652.9	1505.3	1415.2	1354.0	1307.2
14332.5	52.5°	13302.6	10868.2	4641.9	1998.6	1577.3	1519.7	1472.9	1411.6	1357.6	1318.0
16122.3	55°	14933.9	12085.4	4533.8	1699.7	1447.7	1454.9	1480.1	1426.0	1379.2	1318.0
18128.1	57.5°	16770.5	13327.8	4134.1	1480.1	1350.4	1422.4	1472.9	1411.6	1364.8	1318.0
20180.8	60°	17904.8	14026.4	3352.7	1289.2	1264.0	1361.2	1429.7	1364.8	1314.4	1332.4
21124.3	62.5°	18365.8	13659.1	2528.0	1170.4	1202.8	1278.4	1361.2	1336.0	1300.0	1368.4
21113.5	65°	17580.7	12812.8	1807.8	1069.5	1120.0	1195.6	1300.0	1328.8	1339.6	1472.9
19392.1	67.5°	15643.3	11156.3	1328.8	986.7	1033.5	1145.2	1343.2	1390.0	1382.8	1548.5
16273.5	70°	12517.5	8725.6	1037.1	918.3	1001.1	1184.8	1404.4	1404.4	1354.0	1548.5
12413.1	72.5°	9107.3	6150.7	893.1	839.1	918.3	1087.5	1397.2	1393.6	1328.8	1415.2
7904.5	75°	5513.3	3579.5	788.6	759.8	788.6	932.7	1336.0	1314.4	1224.4	1217.2
3802.8	77.5°	2747.7	1800.6	644.6	673.4	687.8	781.4	1174.0	1206.4	1083.9	1055.1
1501.7	80°	1159.6	785.0	536.6	579.8	579.8	659.0	975.9	997.5	900.3	846.3
594.2	82.5°	529.4	450.1	457.3	504.2	471.7	511.4	774.2	799.5	731.0	641.0
252.1	85°	223.3	255.7	349.3	396.1	349.3	331.3	533.0	561.8	475.3	396.1
108.0	87.5°	100.8	140.4	219.7	288.1	176.5	154.8	284.5	295.3	237.7	176.5
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>
4130.5
4126.9
4278.1
4429.4
4422.2
4307.0
4231.3
4152.1
3986.5
3774.0
3543.5
3205.0
2834.1
2463.2
2121.1
1865.4
1663.7
1483.7
1390.0
1336.0
1314.4
1314.4
1314.4
1314.4
1318.0
1350.4
1472.9
1559.3
1516.1
1364.8
1202.8
1037.1
828.3
626.6
399.7
165.7
0.0

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