

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: P477438

Luminaire Tested: **IFLD-M-SA4D-750-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-750-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

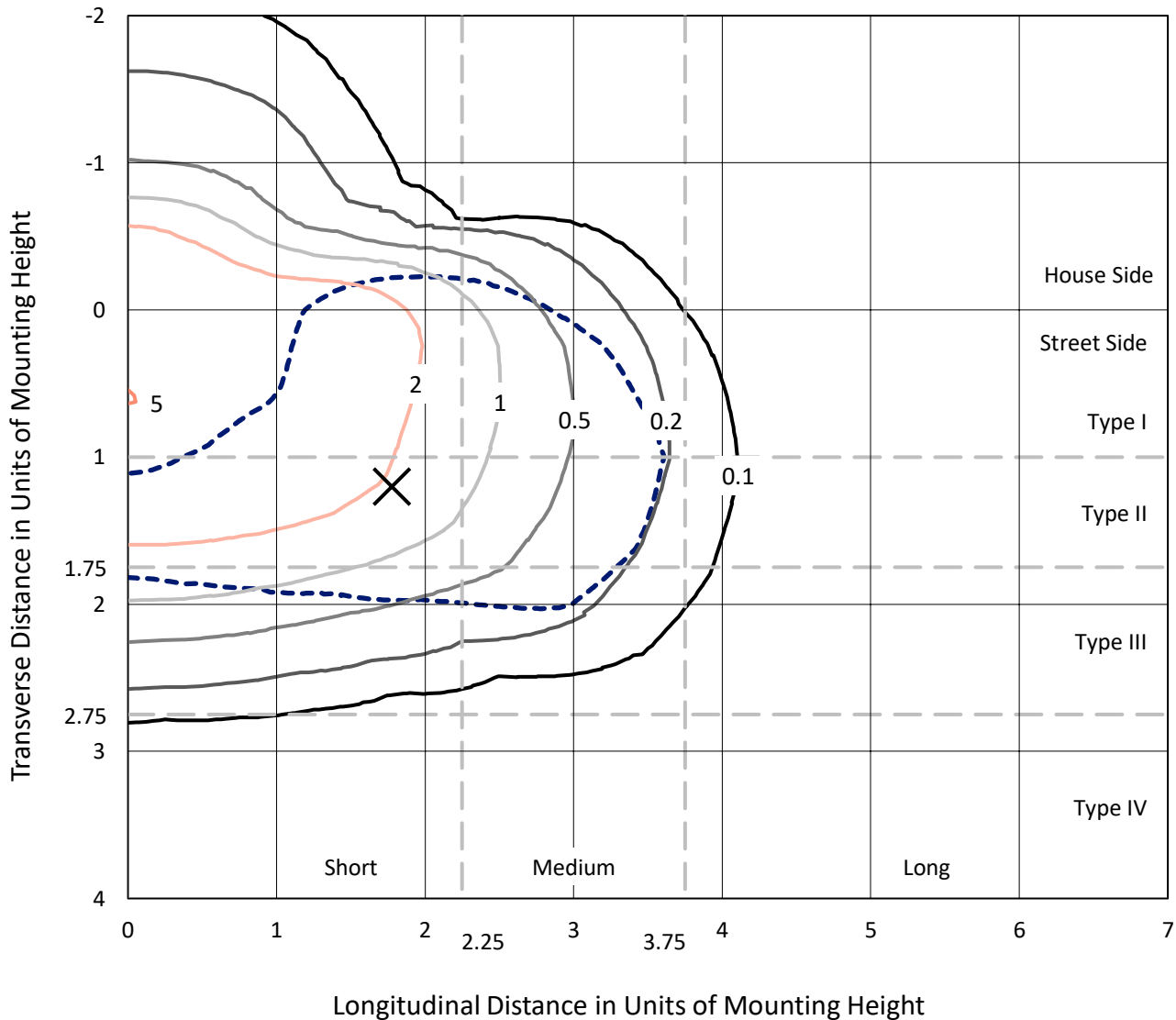
Lumens per Lamp: N/A  
Luminaire Lumens: 32593 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
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

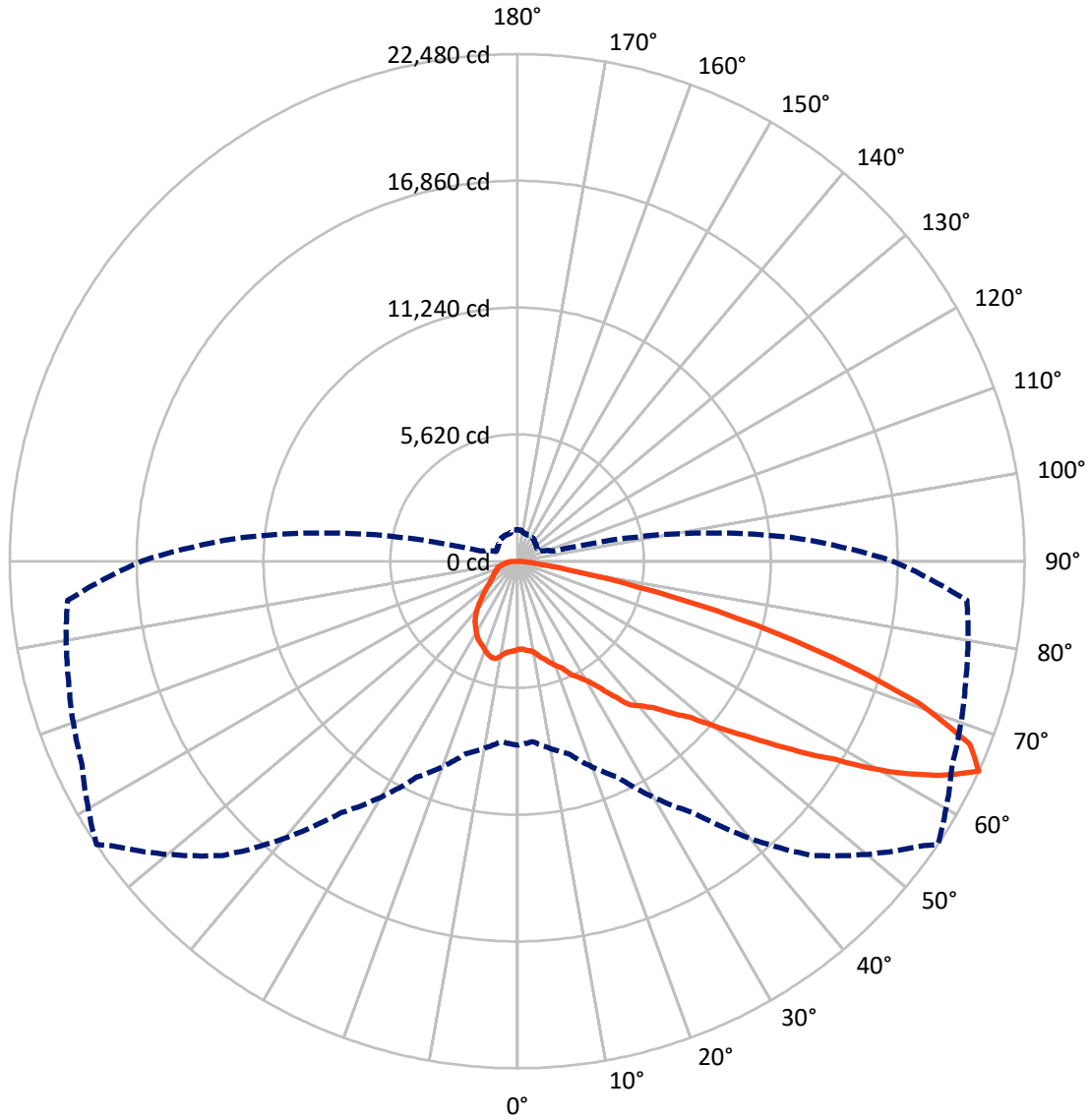
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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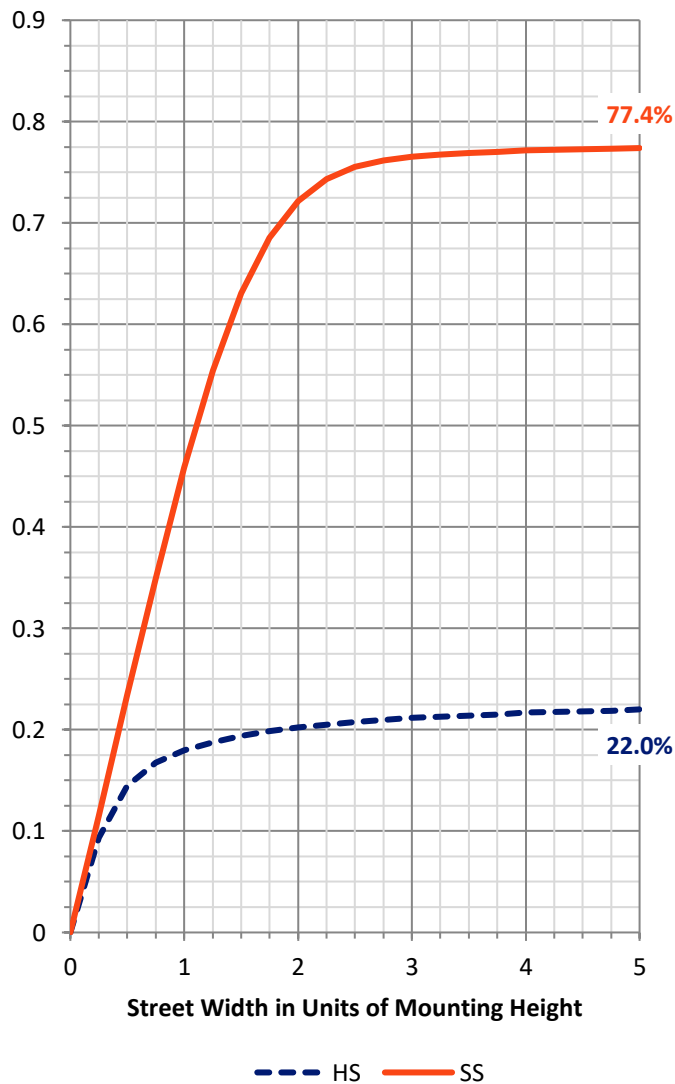
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7309.6	0.0	7309.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	25283.4	0.0	25283.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	32593.0	0.0	32593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.7	1.2
10°-20°	1258.8	3.9
20°-30°	2241.4	6.9
30°-40°	3356.5	10.3
40°-50°	4973.0	15.3
50°-60°	7662.7	23.5
60°-70°	8675.2	26.6
70°-80°	3600.3	11.0
80°-90°	437.4	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°	32593.0	100.0
0°-180°	32593.0	100.0

**Coefficient of Utilization**

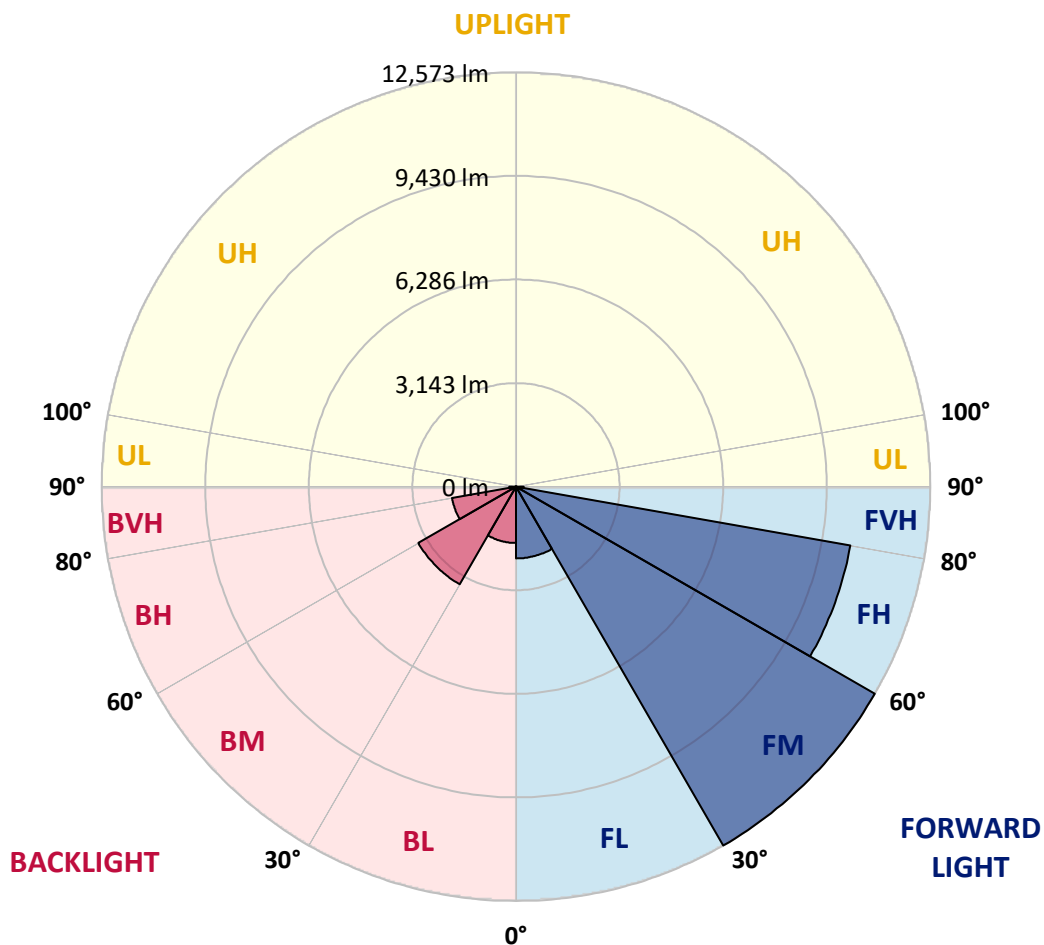


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.2	6.7			
FM (30°-60°)	12572.9	38.6			
FH (60°-80°)	10301.6	31.6			G4/12000
FVH (80°-90°)	230.7	0.7			G3/500
BL (0°-30°)	1709.8	5.2	B3/2500		
BM (30°-60°)	3419.3	10.5	B3/5000		
BH (60°-80°)	1973.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	206.7	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°	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1
2.5°	3809.8	3830.2	3816.6	3857.5	3891.6	3891.6	3918.9	3898.4	3925.7	3963.2
5°	3936.0	3854.1	3898.4	3918.9	3908.7	3925.7	3898.4	3966.7	3922.3	3993.9
7.5°	3966.7	3997.4	4034.9	4000.8	4031.5	4014.4	4017.8	4007.6	3983.7	4041.7
10°	4191.8	4147.4	4232.7	4181.5	4174.7	4167.9	4154.2	4103.1	4161.1	4164.5
12.5°	4451.0	4410.1	4406.6	4365.7	4420.3	4321.4	4341.8	4314.6	4324.8	4338.4
15°	4638.6	4621.5	4700.0	4652.2	4580.6	4536.2	4584.0	4509.0	4546.5	4539.7
17.5°	5010.3	5006.9	4948.9	4870.5	4829.6	4764.8	4754.5	4723.8	4751.1	4737.5
20°	5269.6	5307.1	5317.3	5225.2	5068.3	4996.7	4979.6	4955.8	4986.5	4976.2
22.5°	5665.2	5607.2	5651.6	5491.2	5433.3	5262.7	5201.3	5167.2	5313.9	5276.4
25°	5917.6	5979.0	5934.6	5880.1	5750.5	5539.0	5494.7	5569.7	5627.7	5586.7
27.5°	6487.2	6425.8	6384.9	6221.1	6135.9	5914.2	5863.0	5835.7	5849.4	5873.2
30°	6920.3	6954.4	6862.4	6746.4	6531.5	6306.4	6187.0	6163.2	6115.4	6074.5
32.5°	7537.7	7486.5	7431.9	7356.9	7172.7	6876.0	6760.0	6671.4	6528.1	6337.1
35°	7834.4	7981.1	7940.1	7738.9	7599.1	7486.5	7452.4	7316.0	7196.6	6896.5
37.5°	8329.0	8390.4	8332.4	8267.6	8202.8	8083.4	8042.5	8080.0	7844.6	7350.1
40°	8649.6	8779.2	8898.6	8717.8	8704.1	8728.0	8475.6	8431.3	7947.0	7687.7
42.5°	9304.4	9359.0	9382.9	9376.1	9454.5	9454.5	8973.6	8878.1	8533.6	8322.1
45°	10170.7	10215.1	10300.4	10361.7	10273.1	10317.4	9631.9	9594.3	9287.4	9246.4
47.5°	10921.1	11026.8	11217.8	11398.6	11514.6	11364.5	10614.1	10348.1	10269.7	10515.2
50°	11576.0	11449.8	11896.6	12080.7	12588.9	12837.9	11698.7	11593.0	11466.8	11937.5
52.5°	11640.8	11811.3	12442.3	12810.6	13857.7	14318.2	13028.9	12984.6	12831.1	13373.4
55°	12104.6	12084.2	12718.6	13516.7	14761.6	15535.8	14761.6	14734.3	14400.0	14915.1
57.5°	12026.2	12234.2	12735.6	13850.9	15576.7	16842.1	16770.5	16582.9	16115.6	16535.1
60°	11760.1	11814.7	12425.2	13840.7	16050.8	18182.5	18939.7	18977.2	18022.2	18356.5
62.5°	10252.6	10378.8	11153.0	12752.7	15713.2	19106.8	21057.7	20924.7	20160.7	19778.7
65°	8155.0	8028.8	8833.7	10563.0	13612.2	18452.0	21985.5	22480.0	21279.4	20580.2
67.5°	5000.1	4969.4	5743.6	7268.2	10184.4	15702.9	21245.3	21630.7	20969.1	20409.7
70°	2575.1	2496.6	2981.0	4055.3	6401.9	11521.4	18489.5	18868.1	19499.1	18305.3
72.5°	1200.6	1183.5	1442.7	1995.3	3260.6	6773.7	14318.2	14591.0	15921.2	15433.5
75°	706.0	716.2	862.9	1043.7	1589.4	3192.4	9502.2	10030.9	11473.6	11122.3
77.5°	528.7	528.7	613.9	726.5	927.7	1234.7	4689.7	5388.9	6708.9	6033.6
80°	388.8	395.6	470.7	545.7	644.6	637.8	1862.2	2182.9	3076.5	2629.7
82.5°	303.6	313.8	364.9	405.9	453.6	385.4	764.0	822.0	1265.4	1006.2
85°	211.5	218.3	286.5	276.3	276.3	214.9	317.2	334.2	501.4	477.5
87.5°	51.2	58.0	139.8	153.5	116.0	64.8	98.9	112.6	180.8	208.1
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°
3912.1	0°	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1	3912.1
3980.3	2.5°	3929.1	3942.8	4000.8	3970.1	3987.1	3915.5	3973.5	3925.7	3966.7	3946.2
4011.0	5°	4038.3	4007.6	4041.7	4017.8	4017.8	4045.1	4086.0	4055.3	4116.7	4089.4
4034.9	7.5°	4082.6	4086.0	4106.5	4109.9	4092.9	4178.1	4181.5	4171.3	4229.3	4215.6
4198.6	10°	4191.8	4195.2	4232.7	4253.2	4236.1	4266.8	4232.7	4205.4	4202.0	4188.4
4328.2	12.5°	4365.7	4399.8	4393.0	4410.1	4413.5	4283.9	4205.4	4072.4	4055.3	4072.4
4519.2	15°	4526.0	4512.4	4519.2	4553.3	4410.1	4202.0	4062.2	3949.6	3956.4	3959.8
4768.2	17.5°	4717.0	4727.2	4737.5	4580.6	4318.0	4072.4	3949.6	3949.6	3915.5	3929.1
4942.1	20°	4935.3	4894.4	4805.7	4584.0	4157.7	3922.3	3884.8	3884.8	3843.9	3816.6
5129.7	22.5°	5105.8	5024.0	4891.0	4478.3	4014.4	3864.3	3772.2	3707.4	3659.7	3605.1
5337.8	25°	5215.0	5170.6	4911.4	4369.1	3908.7	3710.9	3574.4	3475.5	3414.1	3342.5
5501.5	27.5°	5382.1	5296.8	4969.4	4242.9	3792.7	3557.4	3345.9	3192.4	3076.5	3001.4
5750.5	30°	5607.2	5484.4	4928.5	4062.2	3615.4	3291.3	3042.4	2844.5	2711.5	2650.1
5985.8	32.5°	5791.4	5631.1	4894.4	3898.4	3417.5	3021.9	2691.1	2489.8	2414.8	2336.3
6381.4	35°	6142.7	5825.5	4870.5	3806.4	3240.2	2752.4	2404.6	2230.6	2135.1	2019.1
6616.8	37.5°	6412.1	6163.2	4812.5	3615.4	3011.7	2489.8	2186.3	2029.4	1886.1	1763.3
7162.5	40°	6835.1	6633.8	4815.9	3345.9	2742.2	2264.7	2015.7	1852.0	1671.2	1565.5
7970.8	42.5°	7629.8	7097.7	4836.4	3131.0	2438.7	2080.5	1862.2	1667.8	1487.1	1398.4
8891.7	45°	8605.2	7735.5	4710.2	2936.6	2128.3	1906.6	1678.1	1483.7	1367.7	1302.9
10143.5	47.5°	9727.4	8359.7	4539.7	2571.7	1869.1	1722.4	1507.5	1395.0	1309.7	1272.2
11756.7	50°	10982.5	9253.3	4491.9	2237.4	1667.8	1565.5	1425.7	1340.4	1282.4	1238.1
13574.6	52.5°	12599.2	10293.5	4396.4	1892.9	1493.9	1439.3	1395.0	1337.0	1285.8	1248.3
15269.8	55°	14144.2	11446.4	4294.1	1609.9	1371.1	1377.9	1401.8	1350.6	1306.3	1248.3
17169.5	57.5°	15883.7	12623.1	3915.5	1401.8	1279.0	1347.2	1395.0	1337.0	1292.7	1248.3
19113.6	60°	16958.1	13284.7	3175.4	1221.0	1197.2	1289.2	1354.1	1292.7	1244.9	1262.0
20007.2	62.5°	17394.6	12936.8	2394.3	1108.5	1139.2	1210.8	1289.2	1265.4	1231.3	1296.1
19997.0	65°	16651.1	12135.3	1712.2	1013.0	1060.7	1132.4	1231.3	1258.6	1268.8	1395.0
18366.7	67.5°	14816.1	10566.4	1258.6	934.5	978.9	1084.6	1272.2	1316.5	1309.7	1466.6
15413.0	70°	11855.6	8264.2	982.3	869.7	948.2	1122.1	1330.2	1330.2	1282.4	1466.6
11756.7	72.5°	8625.7	5825.5	845.9	794.7	869.7	1030.0	1323.4	1319.9	1258.6	1340.4
7486.5	75°	5221.8	3390.2	746.9	719.7	746.9	883.4	1265.4	1244.9	1159.6	1152.8
3601.7	77.5°	2602.4	1705.4	610.5	637.8	651.4	740.1	1111.9	1142.6	1026.6	999.3
1422.3	80°	1098.2	743.5	508.2	549.1	549.1	624.2	924.3	944.8	852.7	801.5
562.8	82.5°	501.4	426.3	433.2	477.5	446.8	484.3	733.3	757.2	692.4	607.1
238.7	85°	211.5	242.2	330.8	375.2	330.8	313.8	504.8	532.1	450.2	375.2
102.3	87.5°	95.5	133.0	208.1	272.9	167.1	146.7	269.4	279.7	225.1	167.1
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>
3912.1
3908.7
4051.9
4195.2
4188.4
4079.2
4007.6
3932.6
3775.7
3574.4
3356.1
3035.5
2684.2
2332.9
2008.9
1766.7
1575.7
1405.2
1316.5
1265.4
1244.9
1244.9
1244.9
1244.9
1248.3
1279.0
1395.0
1476.8
1435.9
1292.7
1139.2
982.3
784.5
593.5
378.6
156.9
0.0

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