

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: P477399

Luminaire Tested: **IFLD-M-SA4D-740-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477399  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

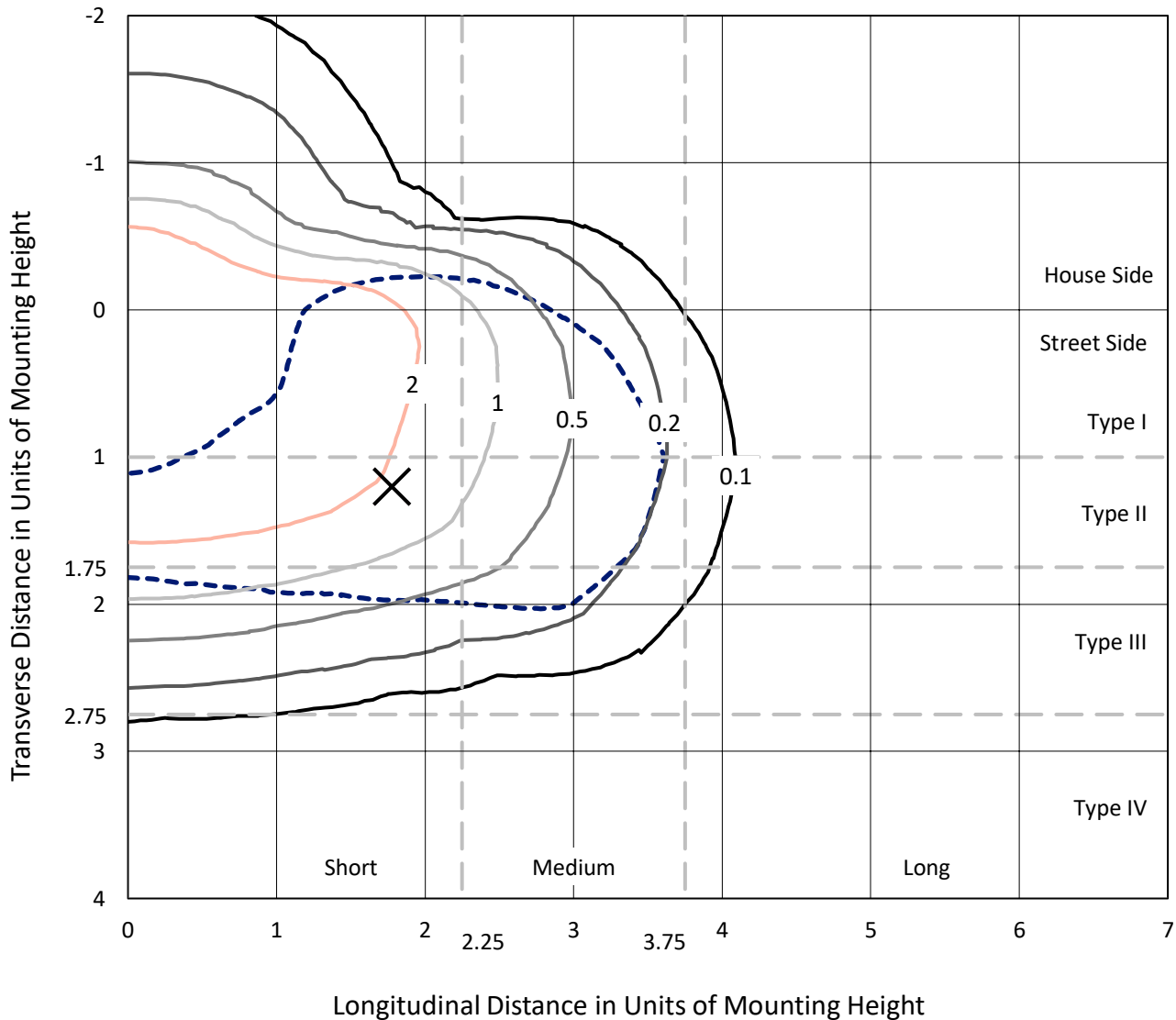
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31863.3 lumens  
Efficiency: N/A  
Efficacy: 127.6 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

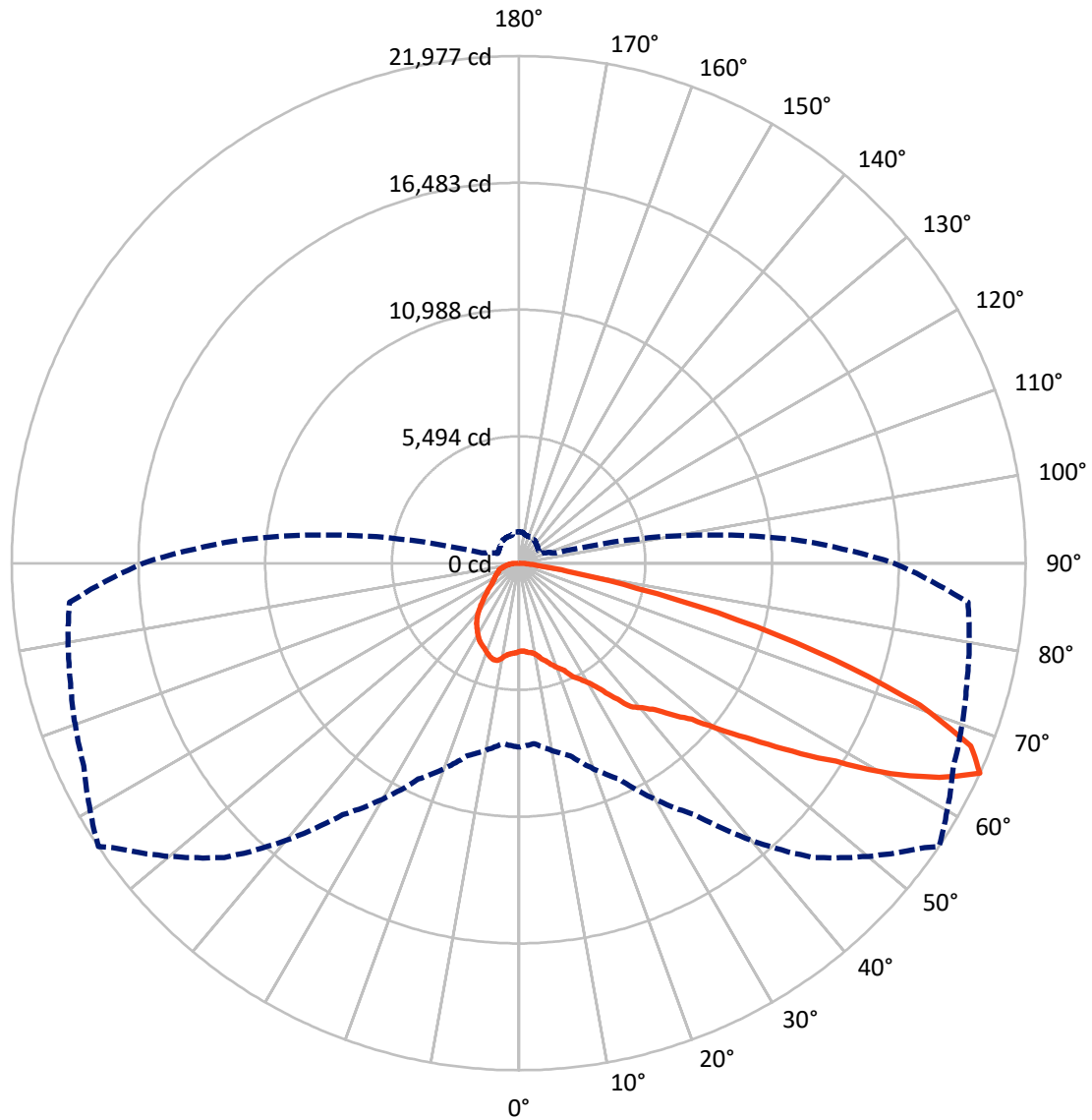
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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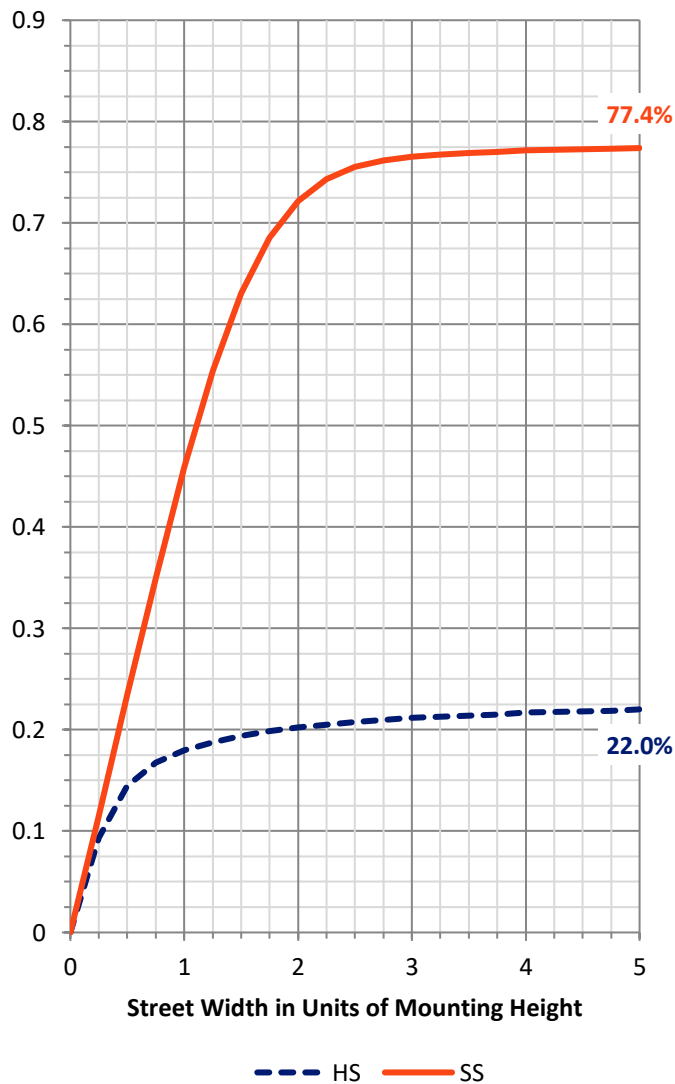
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7145.9	0.0	7145.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	24717.4	0.0	24717.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	31863.3	0.0	31863.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.0	1.2
10°-20°	1230.7	3.9
20°-30°	2191.2	6.9
30°-40°	3281.3	10.3
40°-50°	4861.7	15.3
50°-60°	7491.2	23.5
60°-70°	8481.0	26.6
70°-80°	3519.7	11.0
80°-90°	427.6	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°	31863.3	100.0
0°-180°	31863.3	100.0

**Coefficient of Utilization**

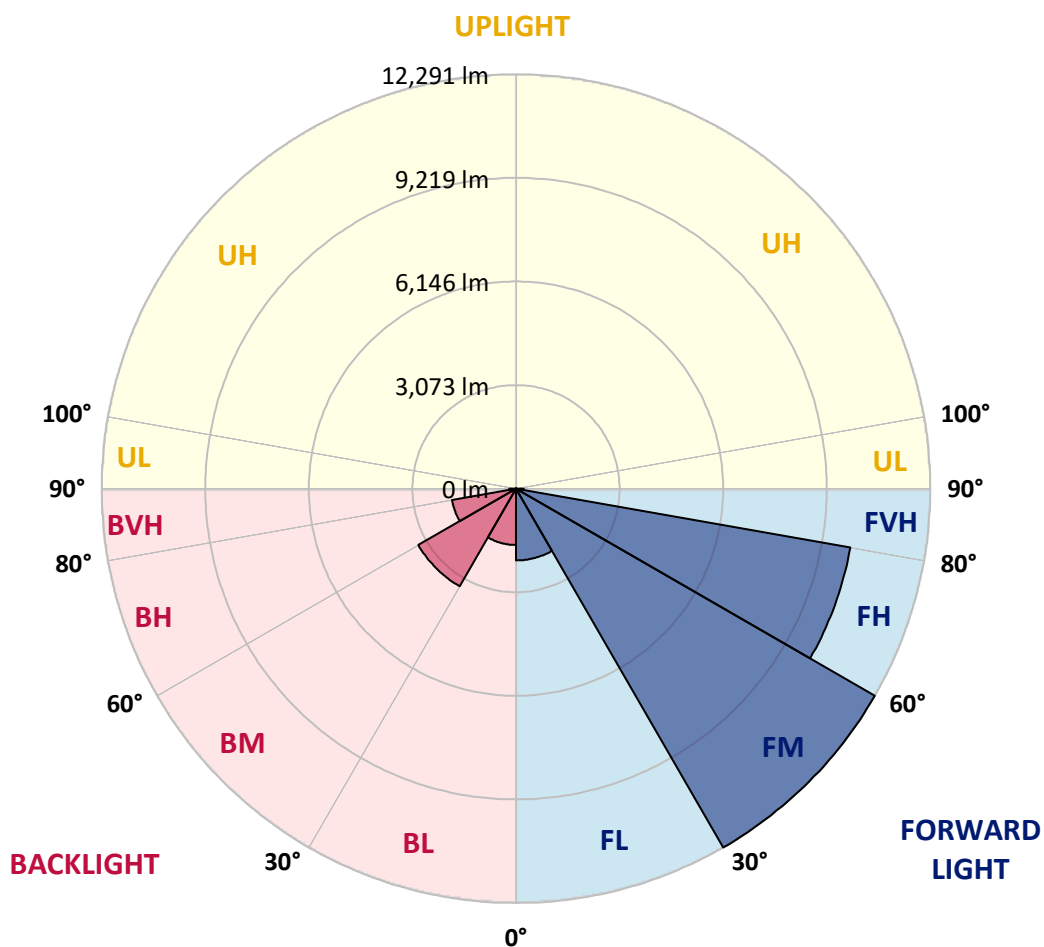


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.4	6.7			
FM (30°-60°)	12291.5	38.6			
FH (60°-80°)	10071.0	31.6			G4/12000
FVH (80°-90°)	225.6	0.7			G3/500
BL (0°-30°)	1671.5	5.2	B3/2500		
BM (30°-60°)	3342.7	10.5	B3/5000		
BH (60°-80°)	1929.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	202.1	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°	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5
2.5°	3724.5	3744.5	3731.1	3771.2	3804.5	3804.5	3831.2	3811.2	3837.8	3874.5
5°	3847.8	3767.8	3811.2	3831.2	3821.2	3837.8	3811.2	3877.9	3834.5	3904.5
7.5°	3877.9	3907.9	3944.5	3911.2	3941.2	3924.5	3927.9	3917.9	3894.5	3951.2
10°	4097.9	4054.6	4137.9	4087.9	4081.3	4074.6	4061.2	4011.2	4067.9	4071.2
12.5°	4351.3	4311.3	4308.0	4268.0	4321.3	4224.6	4244.6	4218.0	4228.0	4241.3
15°	4534.7	4518.1	4594.7	4548.1	4478.0	4434.7	4481.4	4408.0	4444.7	4438.0
17.5°	4898.2	4894.8	4838.2	4761.5	4721.4	4658.1	4648.1	4618.1	4644.8	4631.4
20°	5151.6	5188.3	5198.3	5108.2	4954.9	4884.8	4868.2	4844.8	4874.8	4864.8
22.5°	5538.4	5481.7	5525.0	5368.3	5311.6	5144.9	5084.9	5051.6	5194.9	5158.3
25°	5785.1	5845.1	5801.8	5748.4	5621.7	5415.0	5371.6	5445.0	5501.7	5461.7
27.5°	6341.9	6281.9	6241.9	6081.9	5998.5	5781.8	5731.8	5705.1	5718.4	5741.8
30°	6765.4	6798.8	6708.7	6595.4	6385.3	6165.2	6048.5	6025.2	5978.5	5938.5
32.5°	7368.9	7318.9	7265.6	7192.2	7012.2	6722.1	6608.7	6522.0	6382.0	6195.2
35°	7659.0	7802.4	7762.4	7565.7	7428.9	7318.9	7285.6	7152.2	7035.5	6742.1
37.5°	8142.5	8202.5	8145.8	8082.5	8019.1	7902.4	7862.4	7899.1	7669.0	7185.5
40°	8455.9	8582.6	8699.3	8522.6	8509.3	8532.6	8285.9	8242.5	7769.1	7515.6
42.5°	9096.1	9149.5	9172.8	9166.1	9242.8	9242.8	8772.7	8679.3	8342.6	8135.8
45°	9943.1	9986.4	10069.8	10129.8	10043.1	10086.4	9416.2	9379.5	9079.5	9039.4
47.5°	10676.6	10780.0	10966.7	11143.4	11256.8	11110.1	10376.5	10116.4	10039.7	10279.8
50°	11316.8	11193.4	11630.2	11810.3	12307.1	12550.5	11436.8	11333.5	11210.1	11670.2
52.5°	11380.2	11546.9	12163.7	12523.8	13547.5	13997.6	12737.2	12693.9	12543.9	13074.0
55°	11833.6	11813.6	12433.8	13214.1	14431.1	15188.0	14431.1	14404.4	14077.7	14581.1
57.5°	11756.9	11960.3	12450.5	13540.8	15228.0	16465.1	16395.0	16211.6	15754.8	16165.0
60°	11496.9	11550.2	12147.1	13530.8	15691.5	17775.5	18515.7	18552.4	17618.7	17945.5
62.5°	10023.1	10146.4	10903.3	12467.2	15361.4	18679.1	20586.3	20456.3	19709.4	19335.9
65°	7972.4	7849.1	8636.0	10326.5	13307.4	18038.9	21493.3	21976.7	20803.1	20119.5
67.5°	4888.2	4858.2	5615.1	7105.5	9956.4	15351.4	20769.7	21146.5	20499.6	19952.8
70°	2517.4	2440.7	2914.2	3964.6	6258.6	11263.5	18075.5	18445.7	19062.5	17895.5
72.5°	1173.7	1157.0	1410.4	1950.6	3187.6	6622.0	13997.6	14264.4	15564.8	15088.0
75°	690.2	700.2	843.6	1020.3	1553.8	3121.0	9289.5	9806.3	11216.8	10873.3
77.5°	516.8	516.8	600.2	710.2	906.9	1207.0	4584.7	5268.3	6558.7	5898.5
80°	380.1	386.8	460.1	533.5	630.2	623.5	1820.6	2134.0	3007.6	2570.8
82.5°	296.8	306.8	356.8	396.8	443.5	376.8	746.9	803.6	1237.0	983.6
85°	206.7	213.4	280.1	270.1	270.1	210.1	310.1	326.8	490.2	466.8
87.5°	50.0	56.7	136.7	150.0	113.4	63.4	96.7	110.0	176.7	203.4
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°
3824.5	0°	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5	3824.5
3891.2	2.5°	3841.2	3854.5	3911.2	3881.2	3897.9	3827.8	3884.5	3837.8	3877.9	3857.9
3921.2	5°	3947.9	3917.9	3951.2	3927.9	3927.9	3954.5	3994.6	3964.6	4024.6	3997.9
3944.5	7.5°	3991.2	3994.6	4014.6	4017.9	4001.2	4084.6	4087.9	4077.9	4134.6	4121.3
4104.6	10°	4097.9	4101.3	4137.9	4157.9	4141.3	4171.3	4137.9	4111.3	4107.9	4094.6
4231.3	12.5°	4268.0	4301.3	4294.7	4311.3	4314.7	4188.0	4111.3	3981.2	3964.6	3981.2
4418.0	15°	4424.7	4411.4	4418.0	4451.4	4311.3	4107.9	3971.2	3861.2	3867.9	3871.2
4661.4	17.5°	4611.4	4621.4	4631.4	4478.0	4221.3	3981.2	3861.2	3861.2	3827.8	3841.2
4831.5	20°	4824.8	4784.8	4698.1	4481.4	4064.6	3834.5	3797.8	3797.8	3757.8	3731.1
5014.9	22.5°	4991.5	4911.5	4781.5	4378.0	3924.5	3777.8	3687.8	3624.4	3577.8	3524.4
5218.3	25°	5098.2	5054.9	4801.5	4271.3	3821.2	3627.8	3494.4	3397.7	3337.7	3267.7
5378.3	27.5°	5261.6	5178.3	4858.2	4147.9	3707.8	3477.7	3271.0	3121.0	3007.6	2934.2
5621.7	30°	5481.7	5361.6	4818.1	3971.2	3534.4	3217.7	2974.2	2780.9	2650.8	2590.8
5851.8	32.5°	5661.7	5505.0	4784.8	3811.2	3341.0	2954.2	2630.8	2434.1	2360.7	2284.0
6238.6	35°	6005.2	5695.1	4761.5	3721.1	3167.6	2690.8	2350.7	2180.7	2087.3	1973.9
6468.7	37.5°	6268.6	6025.2	4704.8	3534.4	2944.2	2434.1	2137.3	1983.9	1843.9	1723.9
7002.1	40°	6682.1	6485.3	4708.1	3271.0	2680.8	2214.0	1970.6	1810.6	1633.8	1530.5
7792.4	42.5°	7459.0	6938.8	4728.1	3060.9	2384.1	2034.0	1820.6	1630.5	1453.8	1367.1
8692.7	45°	8412.6	7562.3	4604.7	2870.9	2080.6	1863.9	1640.5	1450.4	1337.1	1273.7
9916.4	47.5°	9509.6	8172.5	4438.0	2514.1	1827.2	1683.9	1473.8	1363.8	1280.4	1243.7
11493.5	50°	10736.6	9046.1	4391.3	2187.3	1630.5	1530.5	1393.8	1310.4	1253.7	1210.4
13270.7	52.5°	12317.1	10063.1	4298.0	1850.6	1460.4	1407.1	1363.8	1307.1	1257.1	1220.4
14927.9	55°	13827.6	11190.1	4198.0	1573.8	1340.4	1347.1	1370.4	1320.4	1277.1	1220.4
16785.2	57.5°	15528.1	12340.5	3827.8	1370.4	1250.4	1317.1	1363.8	1307.1	1263.7	1220.4
18685.7	60°	16578.4	12987.3	3104.3	1193.7	1170.4	1260.4	1323.7	1263.7	1217.0	1233.7
19559.3	62.5°	17005.2	12647.2	2340.7	1083.7	1113.7	1183.7	1260.4	1237.0	1203.7	1267.1
19549.3	65°	16278.3	11863.6	1673.8	990.3	1037.0	1107.0	1203.7	1230.4	1240.4	1363.8
17955.5	67.5°	14484.4	10329.8	1230.4	913.6	957.0	1060.3	1243.7	1287.1	1280.4	1433.8
15068.0	70°	11590.2	8079.1	960.3	850.3	927.0	1097.0	1300.4	1300.4	1253.7	1433.8
11493.5	72.5°	8432.6	5695.1	826.9	776.9	850.3	1007.0	1293.7	1290.4	1230.4	1310.4
7318.9	75°	5104.9	3314.4	730.2	703.5	730.2	863.6	1237.0	1217.0	1133.7	1127.0
3521.1	77.5°	2544.1	1667.2	596.8	623.5	636.9	723.6	1087.0	1117.0	1003.6	977.0
1390.4	80°	1073.7	726.9	496.8	536.8	536.8	610.2	903.6	923.6	833.6	783.6
550.2	82.5°	490.2	416.8	423.5	466.8	436.8	473.5	716.9	740.2	676.9	593.5
233.4	85°	206.7	236.7	323.4	366.8	323.4	306.8	493.5	520.2	440.1	366.8
100.0	87.5°	93.4	130.0	203.4	266.7	163.4	143.4	263.4	273.4	220.1	163.4
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>
3824.5
3821.2
3961.2
4101.3
4094.6
3987.9
3917.9
3844.5
3691.1
3494.4
3281.0
2967.6
2624.1
2280.7
1963.9
1727.2
1540.5
1373.8
1287.1
1237.0
1217.0
1217.0
1217.0
1217.0
1220.4
1250.4
1363.8
1443.8
1403.8
1263.7
1113.7
960.3
766.9
580.2
370.1
153.4
0.0

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