

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: P477789

Luminaire Tested: **IFLD-M-SA4D-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477789  
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-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

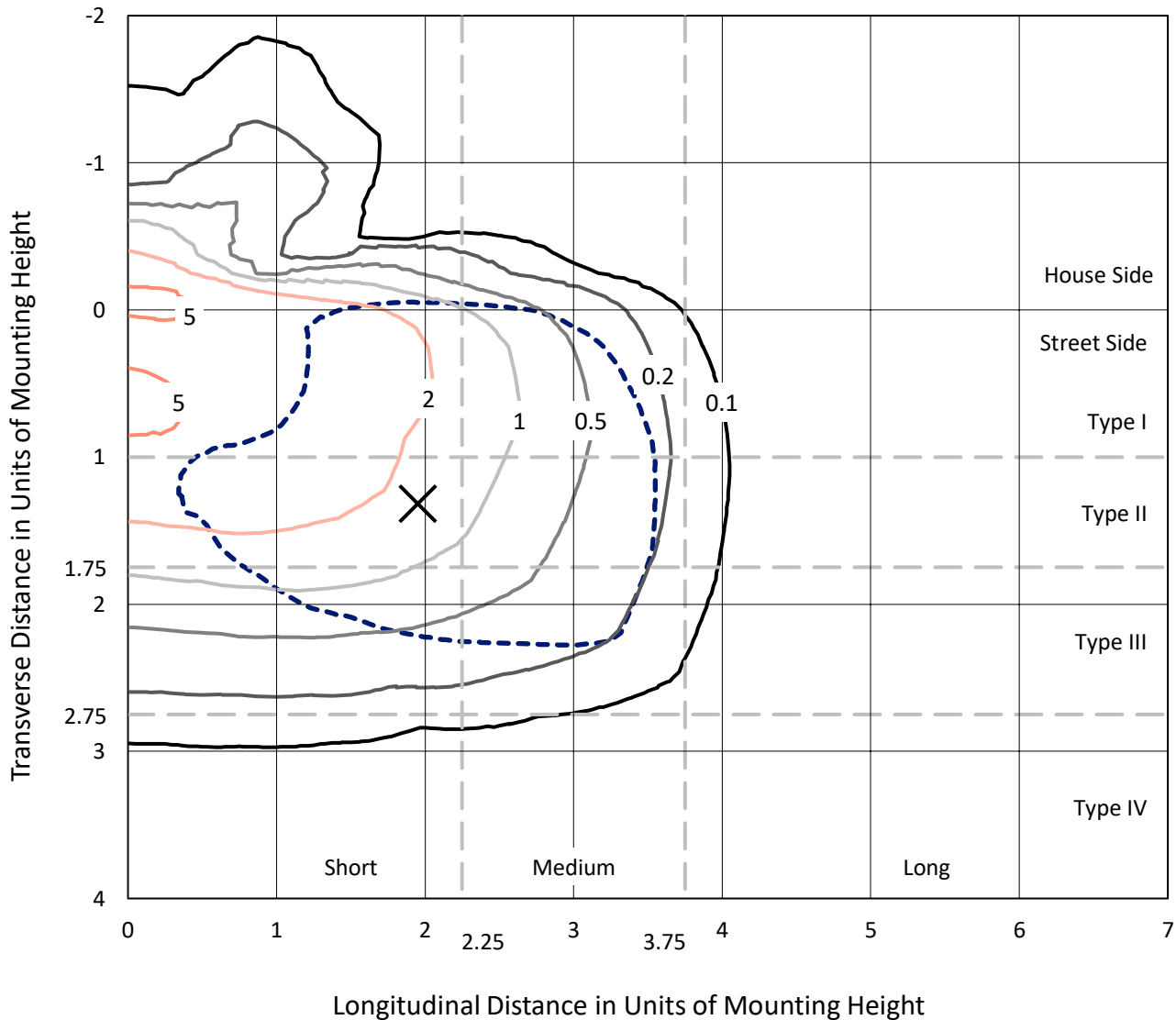
Lumens per Lamp: N/A  
Luminaire Lumens: 30730.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

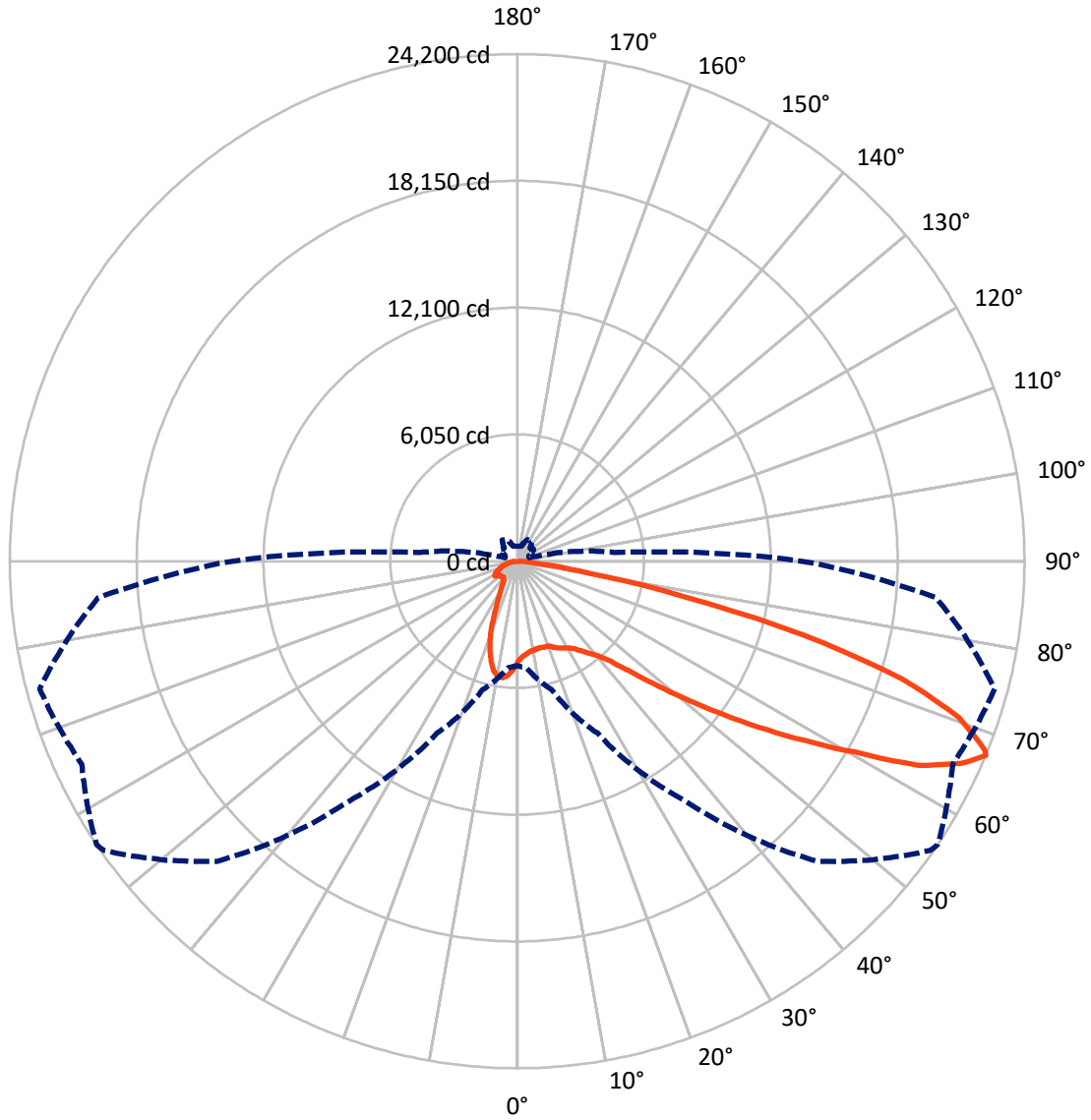
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	4864.9	0.0	4864.9
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	25865.2	0.0	25865.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	30730.1	0.0	30730.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.6	1.5
10°-20°	1256.7	4.1
20°-30°	1970.8	6.4
30°-40°	2813.4	9.2
40°-50°	4246.2	13.8
50°-60°	6759.3	22.0
60°-70°	8641.2	28.1
70°-80°	4213.2	13.7
80°-90°	368.6	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°	30730.1	100.0
0°-180°	30730.1	100.0

**Coefficient of Utilization**

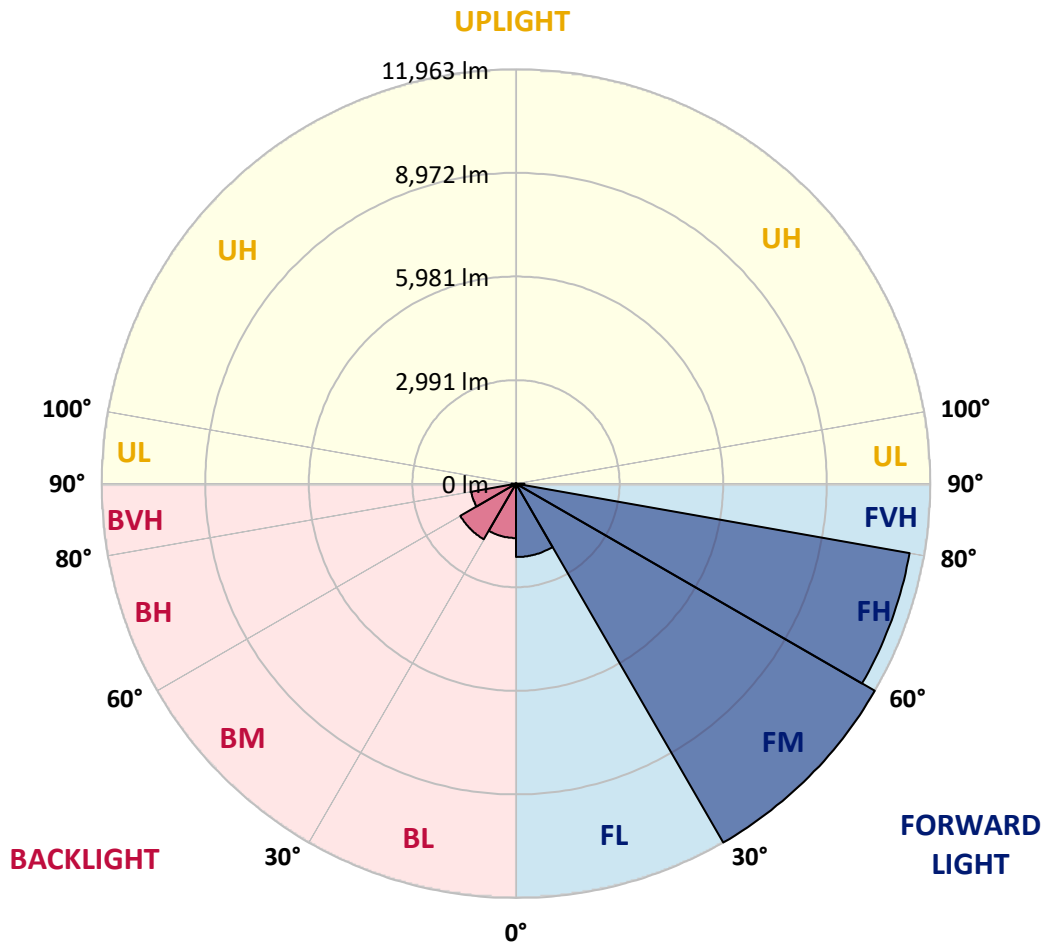


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.7	6.9			
FM (30°-60°)	11963.0	38.9			
FH (60°-80°)	11539.8	37.6			G4/12000
FVH (80°-90°)	244.8	0.8			G3/500
BL (0°-30°)	1570.5	5.1	B3/2500		
BM (30°-60°)	1856.0	6.0	B2/2500		
BH (60°-80°)	1314.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	123.8	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5
2.5°	4392.4	4374.4	4396.0	4374.4	4471.6	4529.3	4547.3	4572.5	4662.6	4749.1
5°	4208.6	4129.3	4215.8	4244.6	4251.8	4349.1	4450.0	4468.0	4514.9	4655.4
7.5°	3902.3	3992.4	3960.0	4046.5	4136.5	4233.8	4399.6	4352.7	4525.7	4659.0
10°	3837.5	3844.7	3880.7	3913.1	3992.4	4118.5	4349.1	4320.3	4496.9	4781.5
12.5°	3902.3	3902.3	3891.5	3866.3	3956.4	4078.9	4262.7	4277.1	4554.5	4817.6
15°	4129.3	4172.6	4057.3	4075.3	4039.3	4078.9	4241.0	4273.5	4576.1	4846.4
17.5°	4684.2	4669.8	4532.9	4341.9	4183.4	4158.2	4269.9	4305.9	4554.5	4929.3
20°	5224.7	5195.9	4958.1	4759.9	4446.4	4298.7	4316.7	4320.3	4590.6	4983.3
22.5°	5826.5	5902.1	5642.7	5239.1	4850.0	4482.5	4410.4	4468.0	4673.4	5012.1
25°	6770.5	6608.4	6385.0	5855.3	5228.3	4767.1	4565.3	4594.2	4752.7	5084.2
27.5°	7451.5	7386.7	7037.2	6608.4	5758.0	4990.5	4648.2	4702.3	4896.8	5080.6
30°	8107.3	8107.3	7894.7	7253.4	6316.5	5365.3	4824.8	4799.5	4828.4	5073.4
32.5°	8874.8	8770.3	8464.1	8038.9	7019.1	5707.6	4965.3	4972.5	4972.5	5206.7
35°	9278.4	9447.7	9242.4	8550.5	7556.0	6276.9	5304.0	5249.9	5210.3	5354.4
37.5°	9869.3	9970.2	9754.0	9346.9	8222.6	6738.1	5603.1	5559.8	5329.2	5469.7
40°	10226.0	10208.0	10200.8	10013.5	9105.4	7282.2	6042.7	5931.0	5621.1	5876.9
42.5°	10427.8	10391.8	10835.0	10719.7	9937.8	8082.1	6594.0	6532.7	6190.4	6601.2
45°	10654.8	10921.5	11285.4	11609.7	10907.1	9206.3	7527.2	7440.7	7134.5	7656.9
47.5°	10853.0	11180.9	11645.7	11991.6	11782.7	10427.8	8680.2	8701.9	8500.1	9037.0
50°	11184.5	11216.9	11847.5	12546.5	12708.7	11555.6	10229.6	10193.6	10103.5	10856.6
52.5°	11083.6	11180.9	11977.2	12870.8	13137.5	12748.3	11894.4	12002.5	11883.5	12831.2
55°	9440.5	9732.4	11898.0	13213.1	14153.6	14095.9	14034.7	13962.6	13955.4	15050.8
57.5°	8694.7	8932.5	10481.9	13591.5	15241.8	15667.0	16063.3	16142.6	16139.0	17461.4
60°	8204.6	8449.6	9909.0	13386.1	16167.8	17724.4	18484.7	18495.5	18473.9	20037.7
62.5°	7246.2	7484.0	8918.1	12261.9	16423.6	19623.3	21316.9	21457.4	20466.5	22257.3
65°	6093.1	6287.7	7552.4	10543.1	15742.6	20830.4	23446.4	23280.6	22145.6	23525.7
67°	4983.3	5113.0	6345.3	9051.4	13962.6	20250.3	24062.6	24199.5	22920.3	23579.7
67.5°	4666.2	4785.1	5949.0	8543.3	13285.2	19810.7	24084.2	24062.6	22934.7	23590.5
70°	3239.3	3289.8	4053.7	5876.9	9786.4	16737.1	22325.8	22376.2	21972.7	22311.4
72.5°	2147.5	2223.2	2709.6	3704.1	5768.8	12179.0	18661.3	19201.8	18945.9	18293.7
75°	1383.7	1426.9	1772.8	2205.2	2839.4	6936.3	13786.1	14146.4	13559.1	11314.2
77.5°	774.7	821.5	1070.2	1340.4	1383.7	2886.2	7743.4	8190.2	6939.9	4806.7
80°	482.8	544.1	807.1	796.3	659.4	1059.4	3192.5	3419.5	2774.5	1653.9
82.5°	363.9	410.8	623.4	558.5	371.1	472.0	1196.3	1282.8	1016.1	637.8
85°	248.6	313.5	450.4	345.9	194.6	227.0	475.6	511.7	464.8	309.9
87.5°	90.1	133.3	234.2	173.0	86.5	68.5	154.9	173.0	165.7	140.5
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°
4781.5	0°	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5
4824.8	2.5°	4893.2	4943.7	4968.9	5116.6	5177.9	5167.1	5181.5	5203.1	5224.7	5253.5
4886.0	5°	4932.9	5087.8	5170.7	5343.6	5458.9	5408.5	5473.3	5455.3	5430.1	5426.5
4997.7	7.5°	5062.6	5260.8	5509.4	5556.2	5606.7	5480.6	5372.5	5224.7	5188.7	5062.6
5091.4	10°	5293.2	5455.3	5758.0	5776.0	5552.6	5228.3	4986.9	4680.6	4677.0	4493.3
5235.5	12.5°	5513.0	5696.8	5941.8	5837.3	5304.0	4860.8	4468.0	4132.9	3992.4	3898.7
5322.0	15°	5649.9	5952.6	6082.3	5631.9	4868.0	4269.9	3761.8	3401.5	3257.3	3188.9
5430.1	17.5°	5776.0	6197.6	6140.0	5271.6	4331.1	3660.9	3055.6	2742.1	2702.4	2652.0
5603.1	20°	5949.0	6287.7	5934.6	4803.1	3722.2	2875.4	2489.9	2338.5	2374.5	2396.2
5621.1	22.5°	6111.1	6334.5	5675.1	4291.5	2940.3	2277.3	2086.3	2118.7	2172.8	2244.8
5664.3	25°	6183.2	6410.2	5325.6	3585.2	2237.6	1916.9	1873.7	1927.7	2017.8	2021.4
5725.6	27.5°	6230.0	6356.1	4904.0	2897.0	1769.2	1675.5	1740.4	1780.0	1790.8	1834.1
5855.3	30°	6312.9	6244.4	4370.8	2071.9	1484.5	1488.1	1571.0	1571.0	1571.0	1603.4
5985.0	32.5°	6457.0	6168.8	3747.4	1513.4	1279.2	1394.5	1372.8	1365.6	1351.2	1311.6
6150.8	35°	6547.1	5963.4	2958.3	1120.6	1149.4	1279.2	1271.9	1160.2	972.9	879.2
6572.3	37.5°	6734.5	5858.9	2176.4	864.8	1073.8	1221.5	1181.9	911.6	706.2	616.2
7094.8	40°	7138.1	5790.4	1506.2	756.7	1023.3	1192.7	1055.8	778.3	540.5	381.9
7901.9	42.5°	7631.7	5794.0	1023.3	713.4	1026.9	1253.9	1016.1	666.6	381.9	306.3
8979.3	45°	8294.7	5740.0	702.6	713.4	1091.8	1354.8	1041.3	605.3	371.1	389.2
10330.5	47.5°	9008.1	5786.8	522.5	648.6	1102.6	1358.4	951.3	594.5	356.7	450.4
11800.7	50°	9840.5	5833.7	432.4	598.1	1106.2	1315.2	875.6	580.1	371.1	475.6
13487.0	52.5°	10698.1	5981.4	367.5	565.7	1149.4	1297.2	875.6	601.7	371.1	414.4
15634.5	55°	11977.2	6359.7	529.7	706.2	1308.0	1416.1	1077.4	843.2	518.9	533.3
17692.0	57.5°	13389.7	6748.9	590.9	742.3	1344.0	1275.6	1160.2	929.6	547.7	551.3
19291.8	60°	14319.3	6763.3	587.3	724.3	1257.5	1102.6	1135.0	980.1	558.5	472.0
20282.7	62.5°	14690.5	6323.7	612.6	724.3	1171.1	1030.5	1163.9	1055.8	576.5	590.9
20563.8	65°	14268.9	5415.7	590.9	648.6	1030.5	922.4	1171.1	1070.2	630.6	594.5
20059.3	67°	13609.5	4666.2	601.7	616.2	958.5	875.6	1232.3	1124.2	731.5	713.4
19796.3	67.5°	13422.1	4468.0	598.1	598.1	933.2	861.2	1246.7	1124.2	745.9	738.7
17472.2	70°	11829.5	3621.3	612.6	590.9	825.1	817.9	1326.0	1185.5	857.6	864.8
12834.8	72.5°	9004.5	2745.7	609.0	590.9	717.0	781.9	1336.8	1225.1	933.2	864.8
7188.5	75°	5116.6	1643.1	536.9	515.3	565.7	681.0	1250.3	1167.5	908.0	774.7
2871.8	77.5°	2115.1	846.8	493.6	464.8	468.4	554.9	1041.3	1088.2	864.8	659.4
958.5	80°	789.1	508.1	396.4	371.1	360.3	407.2	742.3	868.4	738.7	540.5
421.6	82.5°	410.8	317.1	270.2	270.2	245.0	259.4	400.0	576.5	558.5	371.1
169.4	85°	209.0	180.2	154.9	151.3	136.9	122.5	201.8	342.3	320.7	205.4
75.7	87.5°	111.7	100.9	64.9	61.3	50.4	32.4	36.0	68.5	111.7	90.1
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>
4781.5
5282.4
5458.9
5105.8
4486.1
3877.1
3174.5
2677.2
2370.9
2205.2
2057.5
1873.7
1639.5
1290.0
922.4
612.6
371.1
299.1
396.4
500.9
551.3
425.2
562.1
533.3
486.4
598.1
583.7
702.6
724.3
799.9
767.5
691.8
623.4
493.6
291.9
169.4
64.9
0.0

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