

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: P477749

Luminaire Tested: **IFLD-M-SA4C-735-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477749  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-735-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

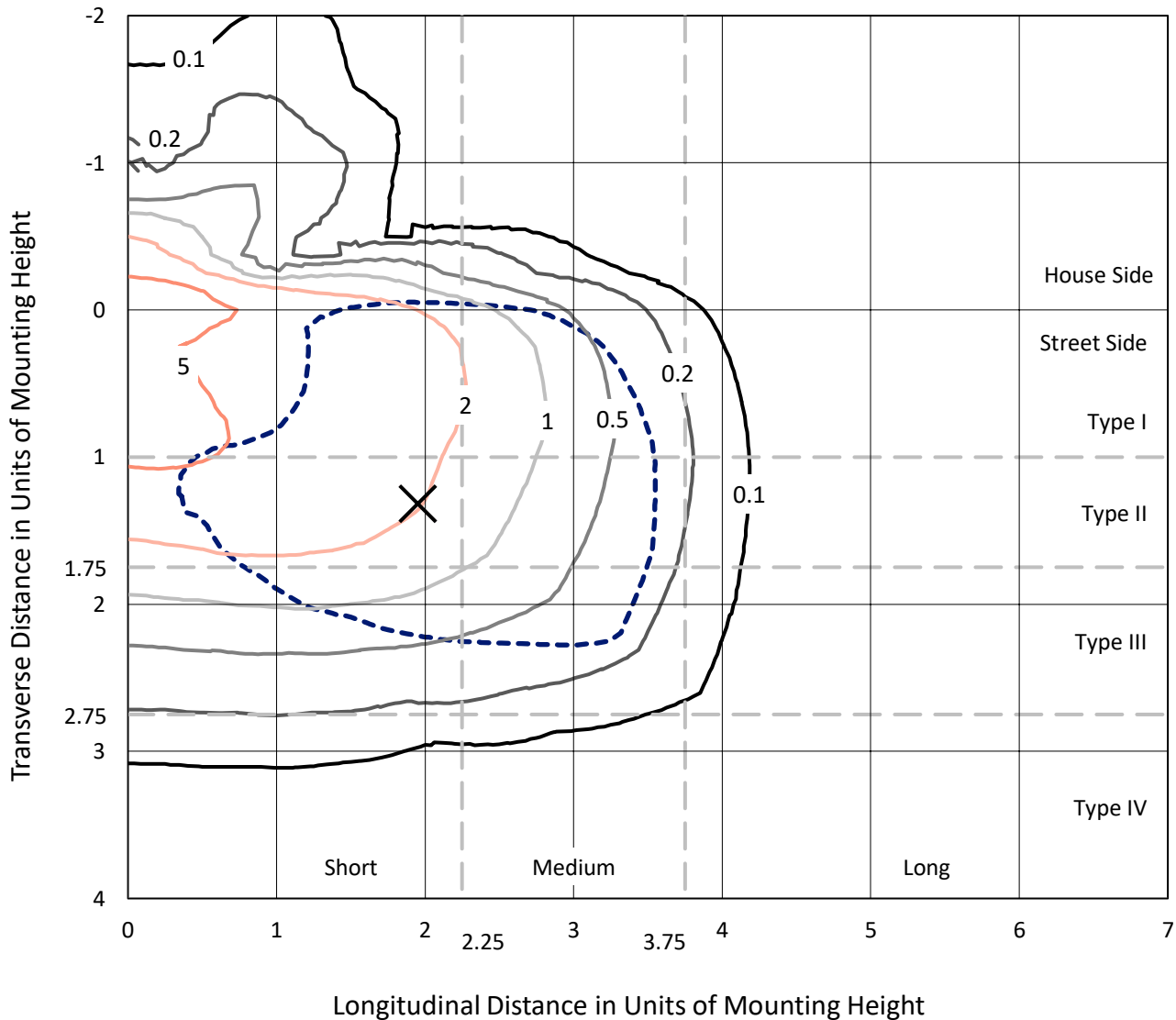
Lumens per Lamp: N/A  
Luminaire Lumens: 27545.7 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
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

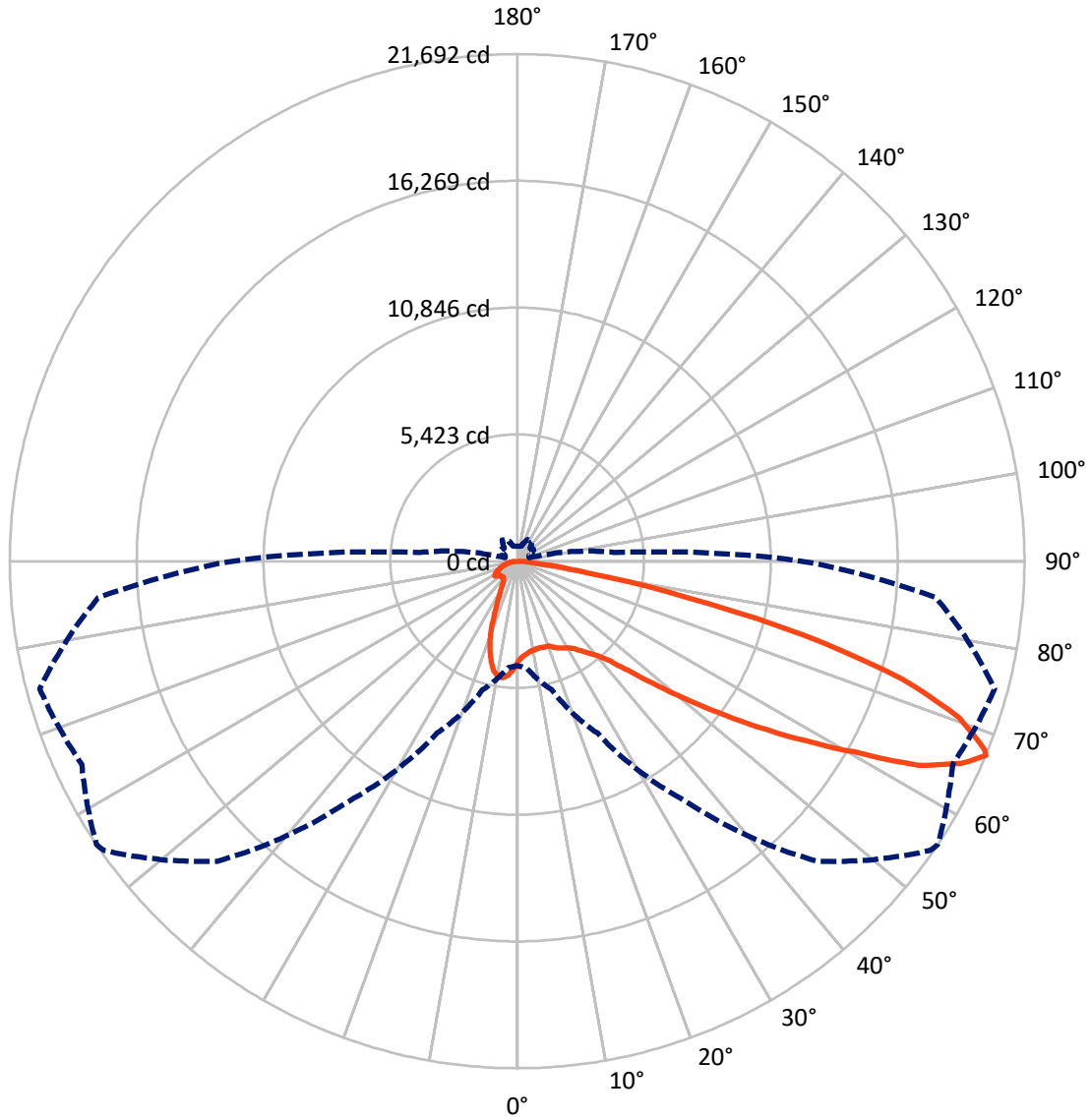
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4360.8	0.0	4360.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	23185.0	0.0	23185.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	27545.7	0.0	27545.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.9	1.5
10°-20°	1126.5	4.1
20°-30°	1766.6	6.4
30°-40°	2521.9	9.2
40°-50°	3806.2	13.8
50°-60°	6058.9	22.0
60°-70°	7745.8	28.1
70°-80°	3776.6	13.7
80°-90°	330.4	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°	27545.7	100.0
0°-180°	27545.7	100.0

**Coefficient of Utilization**

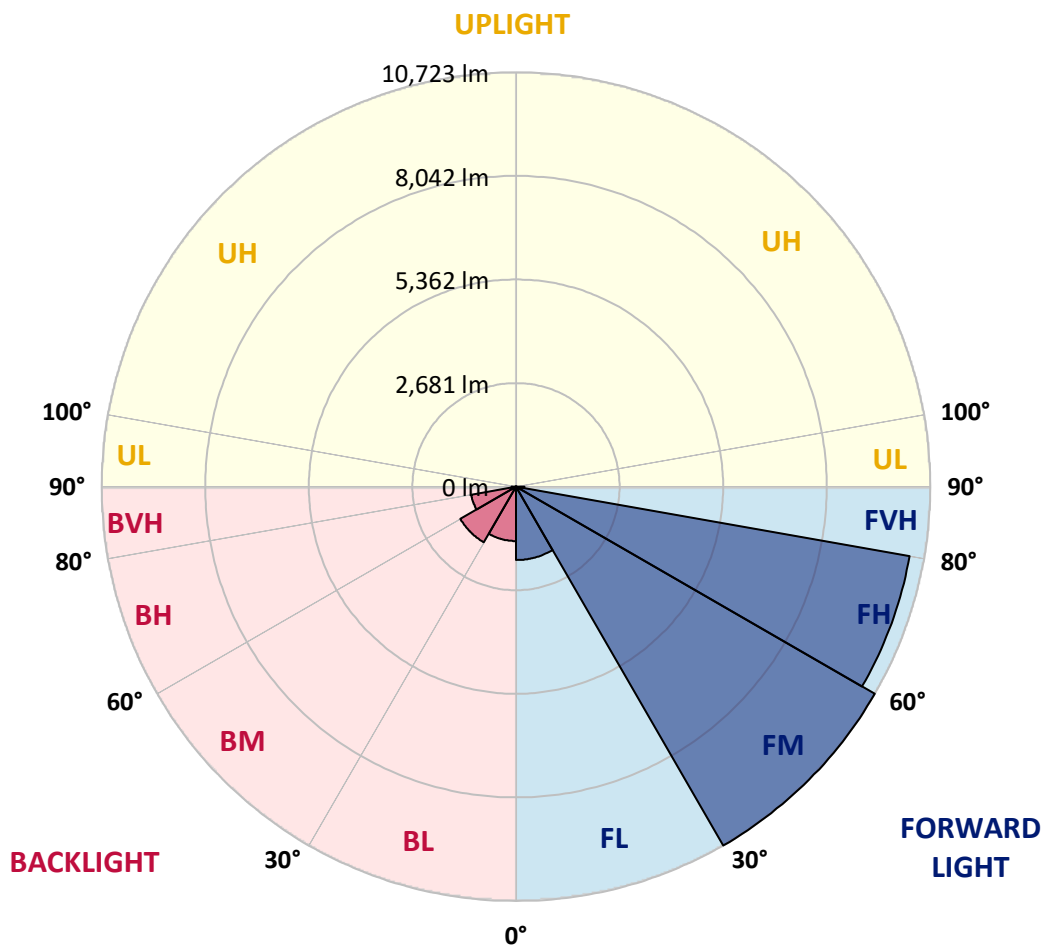


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.2	6.9			
FM (30°-60°)	10723.3	38.9			
FH (60°-80°)	10344.0	37.6			G4/12000
FVH (80°-90°)	219.4	0.8			G2/225
BL (0°-30°)	1407.8	5.1	B3/2500		
BM (30°-60°)	1663.7	6.0	B2/2500		
BH (60°-80°)	1178.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	111.0	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°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
2.5°	3937.2	3921.1	3940.4	3921.1	4008.3	4060.0	4076.1	4098.7	4179.5	4257.0
5°	3772.5	3701.4	3779.0	3804.8	3811.3	3898.5	3988.9	4005.0	4047.0	4173.0
7.5°	3498.0	3578.7	3549.6	3627.1	3707.9	3795.1	3943.7	3901.7	4056.7	4176.2
10°	3439.8	3446.3	3478.6	3507.6	3578.7	3691.7	3898.5	3872.6	4030.9	4286.0
12.5°	3498.0	3498.0	3488.3	3465.7	3546.4	3656.2	3820.9	3833.9	4082.6	4318.3
15°	3701.4	3740.2	3636.8	3653.0	3620.7	3656.2	3801.6	3830.6	4101.9	4344.2
17.5°	4198.8	4185.9	4063.2	3892.0	3749.9	3727.3	3827.4	3859.7	4082.6	4418.5
20°	4683.3	4657.5	4444.3	4266.7	3985.7	3853.2	3869.4	3872.6	4114.9	4466.9
22.5°	5222.7	5290.5	5058.0	4696.2	4347.4	4018.0	3953.4	4005.0	4189.1	4492.8
25°	6068.9	5923.6	5723.3	5248.5	4686.5	4273.1	4092.3	4118.1	4260.2	4557.4
27.5°	6679.4	6621.2	6307.9	5923.6	5161.3	4473.4	4166.5	4215.0	4389.4	4554.1
30°	7267.2	7267.2	7076.7	6501.7	5662.0	4809.3	4324.8	4302.2	4328.0	4547.7
32.5°	7955.2	7861.5	7587.0	7205.8	6291.8	5116.1	4450.8	4457.2	4457.2	4667.2
35°	8316.9	8468.7	8284.6	7664.5	6773.0	5626.4	4754.4	4705.9	4670.4	4799.6
37.5°	8846.6	8937.1	8743.3	8378.3	7370.6	6039.9	5022.5	4983.7	4777.0	4902.9
40°	9166.4	9150.2	9143.8	8975.8	8161.9	6527.6	5416.5	5316.4	5038.6	5267.9
42.5°	9347.3	9315.0	9712.2	9608.9	8908.0	7244.6	5910.7	5855.8	5548.9	5917.1
45°	9550.7	9789.7	10116.0	10406.7	9776.8	8252.3	6747.2	6669.7	6395.2	6863.5
47.5°	9728.4	10022.3	10439.0	10749.0	10561.7	9347.3	7780.8	7800.1	7619.3	8100.5
50°	10025.5	10054.6	10619.8	11246.4	11391.8	10358.2	9169.6	9137.3	9056.6	9731.6
52.5°	9935.1	10022.3	10736.1	11537.1	11776.1	11427.3	10661.8	10758.7	10652.1	11501.6
55°	8462.3	8723.9	10665.0	11843.9	12686.9	12635.3	12580.4	12515.8	12509.3	13491.2
57.5°	7793.7	8006.9	9395.7	12183.1	13662.4	14043.5	14398.8	14469.8	14466.6	15652.0
60°	7354.4	7574.1	8882.2	11999.0	14492.4	15887.8	16569.3	16578.9	16559.6	17961.3
62.5°	6495.3	6708.4	7993.9	10991.3	14721.8	17589.9	19107.9	19233.9	18345.7	19950.9
65°	5461.7	5636.1	6769.8	9450.6	14111.3	18671.9	21016.8	20868.2	19850.8	21087.8
67°	4466.9	4583.2	5687.8	8113.4	12515.8	18151.9	21569.1	21691.8	20545.2	21136.3
67.5°	4182.7	4289.3	5332.5	7658.0	11908.5	17757.8	21588.5	21569.1	20558.2	21146.0
70°	2903.7	2948.9	3633.6	5267.9	8772.3	15002.8	20012.3	20057.5	19695.8	19999.4
72.5°	1925.0	1992.8	2428.9	3320.3	5171.0	10917.0	16727.5	17212.0	16982.7	16398.1
75°	1240.3	1279.0	1589.1	1976.7	2545.1	6217.5	12357.5	12680.5	12154.0	10141.8
77.5°	694.4	736.4	959.3	1201.5	1240.3	2587.1	6941.0	7341.5	6220.7	4308.7
80°	432.8	487.7	723.5	713.8	591.1	949.6	2861.7	3065.2	2487.0	1482.5
82.5°	326.2	368.2	558.8	500.6	332.7	423.1	1072.3	1149.8	910.8	571.7
85°	222.9	281.0	403.7	310.1	174.4	203.5	426.3	458.6	416.7	277.8
87.5°	80.7	119.5	209.9	155.0	77.5	61.4	138.9	155.0	148.6	126.0
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°
4286.0	0°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
4324.8	2.5°	4386.2	4431.4	4454.0	4586.4	4641.3	4631.6	4644.6	4663.9	4683.3	4709.2
4379.7	5°	4421.7	4560.6	4634.9	4789.9	4893.3	4848.0	4906.2	4890.0	4867.4	4864.2
4479.8	7.5°	4538.0	4715.6	4938.5	4980.5	5025.7	4912.6	4815.7	4683.3	4651.0	4538.0
4563.8	10°	4744.7	4890.0	5161.3	5177.5	4977.2	4686.5	4470.1	4195.6	4192.4	4027.7
4693.0	12.5°	4941.7	5106.4	5326.1	5232.4	4754.4	4357.1	4005.0	3704.7	3578.7	3494.7
4770.5	15°	5064.4	5335.8	5452.0	5048.3	4363.6	3827.4	3372.0	3049.0	2919.8	2858.4
4867.4	17.5°	5177.5	5555.4	5503.7	4725.3	3882.3	3281.6	2738.9	2457.9	2422.4	2377.2
5022.5	20°	5332.5	5636.1	5319.6	4305.4	3336.5	2577.4	2231.8	2096.2	2128.5	2147.9
5038.6	22.5°	5477.9	5678.1	5087.1	3846.8	2635.6	2041.3	1870.1	1899.2	1947.6	2012.2
5077.4	25°	5542.5	5745.9	4773.8	3213.7	2005.8	1718.3	1679.5	1728.0	1808.7	1812.0
5132.3	27.5°	5584.5	5697.5	4395.9	2596.8	1585.9	1501.9	1560.0	1595.6	1605.2	1644.0
5248.5	30°	5658.7	5597.4	3917.8	1857.2	1330.7	1333.9	1408.2	1408.2	1408.2	1437.3
5364.8	32.5°	5787.9	5529.5	3359.1	1356.5	1146.6	1250.0	1230.6	1224.1	1211.2	1175.7
5513.4	35°	5868.7	5345.4	2651.7	1004.5	1030.3	1146.6	1140.1	1040.0	872.1	788.1
5891.3	37.5°	6036.6	5251.8	1950.8	775.2	962.5	1094.9	1059.4	817.2	633.1	552.3
6359.6	40°	6398.4	5190.4	1350.1	678.3	917.3	1069.1	946.4	697.7	484.5	342.4
7083.1	42.5°	6840.9	5193.6	917.3	639.5	920.5	1124.0	910.8	597.5	342.4	274.5
8048.8	45°	7435.2	5145.2	629.8	639.5	978.7	1214.4	933.4	542.6	332.7	348.8
9260.0	47.5°	8074.7	5187.2	468.3	581.4	988.3	1217.7	852.7	532.9	319.8	403.7
10577.8	50°	8820.8	5229.2	387.6	536.2	991.6	1178.9	784.9	520.0	332.7	426.3
12089.4	52.5°	9589.5	5361.6	329.4	507.1	1030.3	1162.8	784.9	539.4	332.7	371.4
14014.4	55°	10736.1	5700.7	474.8	633.1	1172.4	1269.3	965.7	755.8	465.1	478.0
15858.7	57.5°	12002.2	6049.6	529.7	665.4	1204.7	1143.4	1040.0	833.3	490.9	494.2
17292.7	60°	12835.5	6062.5	526.5	649.2	1127.2	988.3	1017.4	878.5	500.6	423.1
18181.0	62.5°	13168.2	5668.4	549.1	649.2	1049.7	923.7	1043.2	946.4	516.8	529.7
18432.9	65°	12790.3	4854.5	529.7	581.4	923.7	826.8	1049.7	959.3	565.2	532.9
17980.7	67°	12199.2	4182.7	539.4	552.3	859.1	784.9	1104.6	1007.7	655.7	639.5
17744.9	67.5°	12031.3	4005.0	536.2	536.2	836.5	771.9	1117.5	1007.7	668.6	662.1
15661.7	70°	10603.7	3246.0	549.1	529.7	739.6	733.2	1188.6	1062.6	768.7	775.2
11504.8	72.5°	8071.5	2461.2	545.8	529.7	642.7	700.9	1198.3	1098.2	836.5	775.2
6443.6	75°	4586.4	1472.8	481.3	461.9	507.1	610.4	1120.8	1046.5	813.9	694.4
2574.2	77.5°	1895.9	759.0	442.5	416.7	419.9	497.4	933.4	975.4	775.2	591.1
859.1	80°	707.3	455.4	355.3	332.7	323.0	365.0	665.4	778.4	662.1	484.5
377.9	82.5°	368.2	284.2	242.2	242.2	219.6	232.6	358.5	516.8	500.6	332.7
151.8	85°	187.3	161.5	138.9	135.7	122.7	109.8	180.9	306.8	287.5	184.1
67.8	87.5°	100.1	90.4	58.1	54.9	45.2	29.1	32.3	61.4	100.1	80.7
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>
4286.0
4735.0
4893.3
4576.7
4021.2
3475.3
2845.5
2399.8
2125.3
1976.7
1844.3
1679.5
1469.6
1156.3
826.8
549.1
332.7
268.1
355.3
449.0
494.2
381.1
503.9
478.0
436.0
536.2
523.2
629.8
649.2
717.0
688.0
620.1
558.8
442.5
261.6
151.8
58.1
0.0

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