

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: P477360

Luminaire Tested: **IFLD-M-SA4D-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477360  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

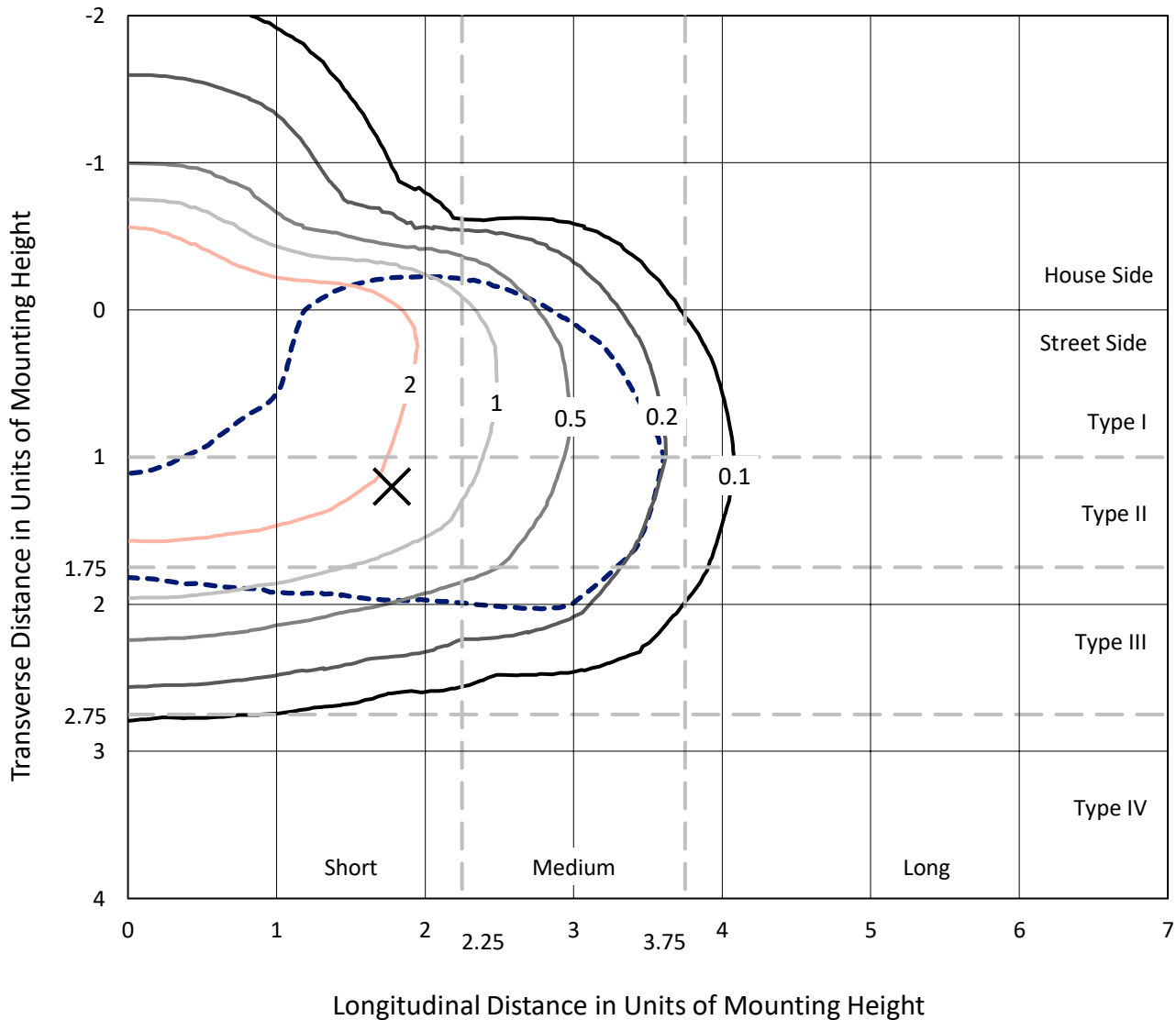
Lumens per Lamp: N/A  
Luminaire Lumens: 31426.8 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): 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

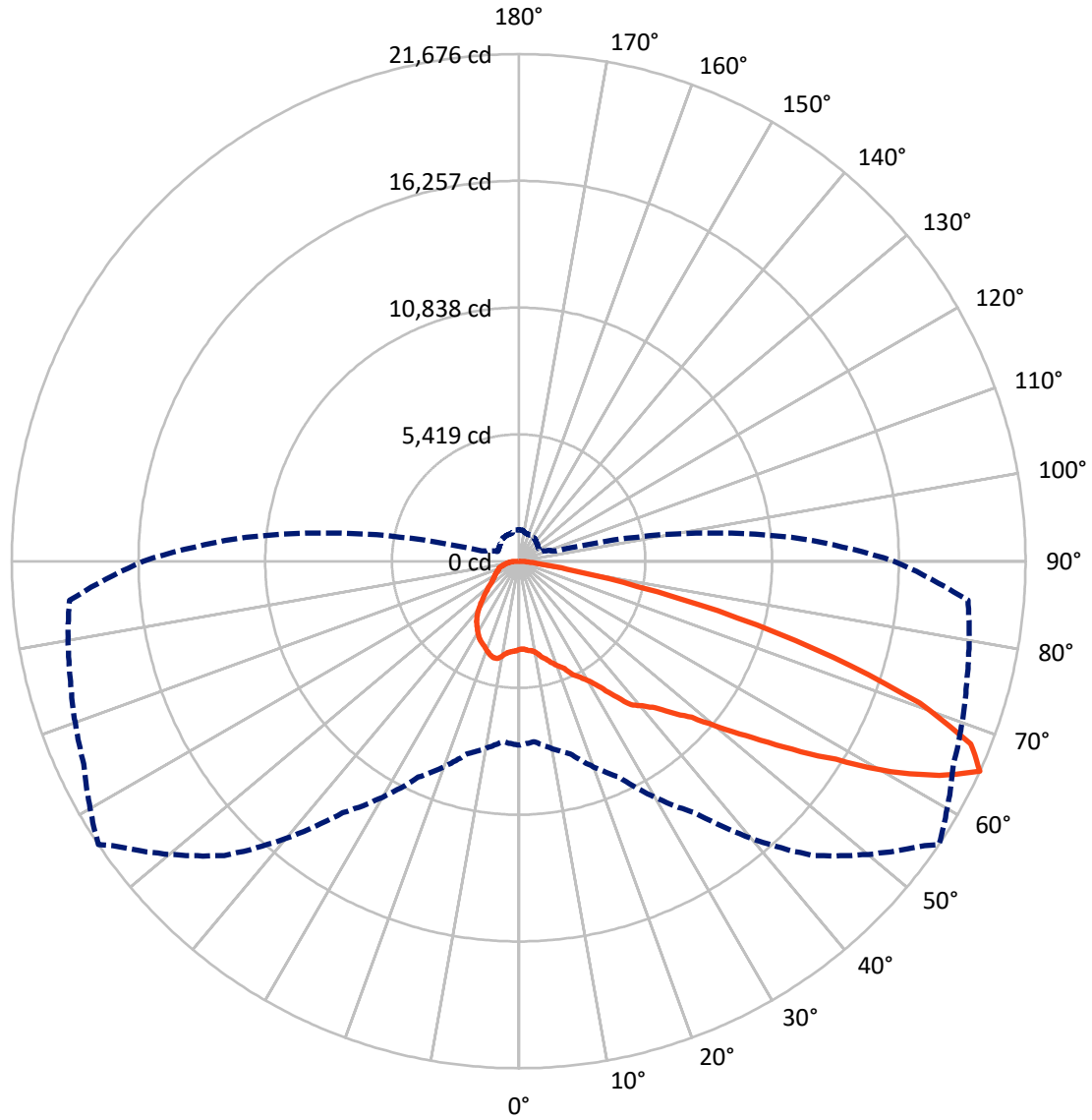
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	7048.0	0.0	7048.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	24378.8	0.0	24378.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	31426.8	0.0	31426.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.8	1.2
10°-20°	1213.8	3.9
20°-30°	2161.2	6.9
30°-40°	3236.4	10.3
40°-50°	4795.1	15.3
50°-60°	7388.6	23.5
60°-70°	8364.8	26.6
70°-80°	3471.5	11.0
80°-90°	421.7	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°	31426.8	100.0
0°-180°	31426.8	100.0

**Coefficient of Utilization**

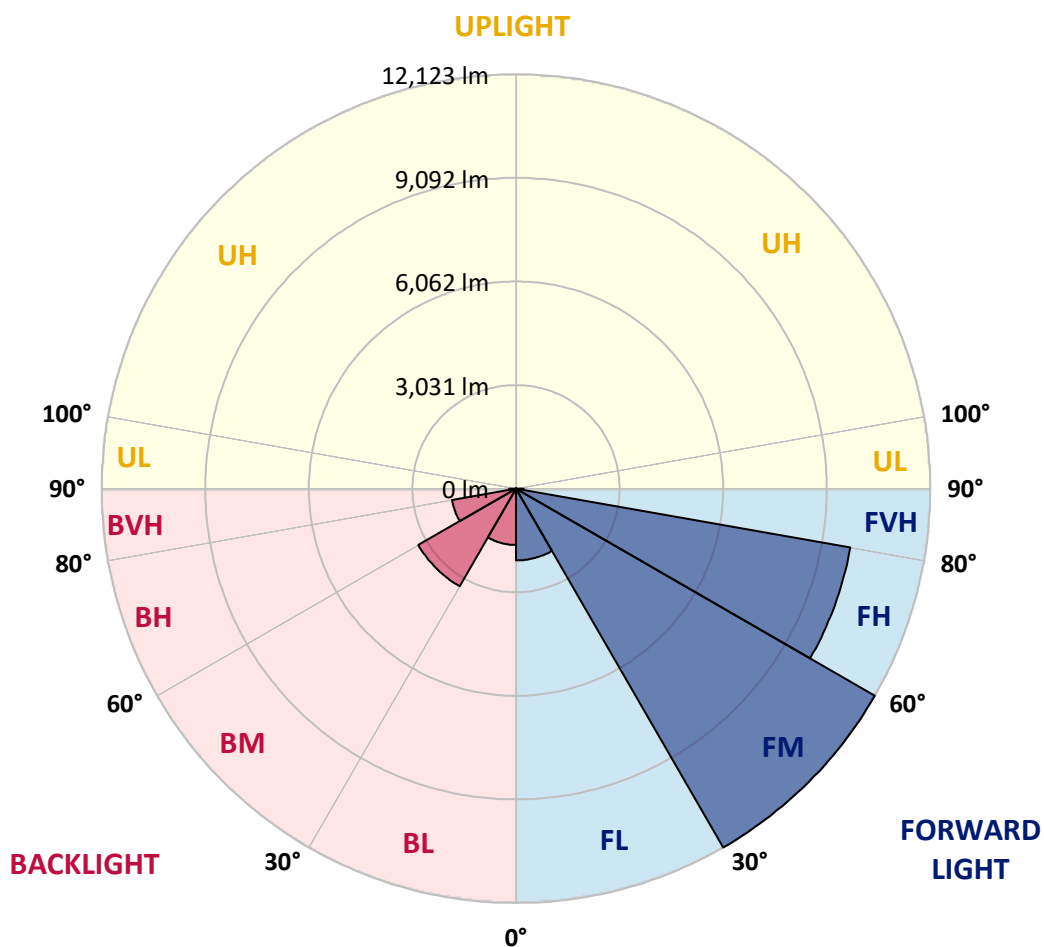


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.2	6.7			
FM (30°-60°)	12123.1	38.6			
FH (60°-80°)	9933.0	31.6			G4/12000
FVH (80°-90°)	222.5	0.7			G2/225
BL (0°-30°)	1648.6	5.2	B3/2500		
BM (30°-60°)	3296.9	10.5	B3/5000		
BH (60°-80°)	1903.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	199.3	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°	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1
2.5°	3673.5	3693.2	3680.0	3719.5	3752.4	3752.4	3778.7	3759.0	3785.3	3821.4
5°	3795.1	3716.2	3759.0	3778.7	3768.8	3785.3	3759.0	3824.7	3782.0	3851.0
7.5°	3824.7	3854.3	3890.5	3857.6	3887.2	3870.8	3874.1	3864.2	3841.2	3897.1
10°	4041.8	3999.0	4081.2	4031.9	4025.3	4018.8	4005.6	3956.3	4012.2	4015.5
12.5°	4291.7	4252.3	4249.0	4209.5	4262.1	4166.8	4186.5	4160.2	4170.0	4183.2
15°	4472.6	4456.2	4531.8	4485.8	4416.7	4373.9	4420.0	4347.6	4383.8	4377.2
17.5°	4831.1	4827.8	4771.9	4696.2	4656.8	4594.3	4584.4	4554.8	4581.1	4568.0
20°	5081.0	5117.2	5127.0	5038.3	4887.0	4817.9	4801.5	4778.4	4808.0	4798.2
22.5°	5462.5	5406.6	5449.3	5294.8	5238.9	5074.4	5015.2	4982.3	5123.8	5087.6
25°	5705.9	5765.0	5722.3	5669.7	5544.7	5340.8	5298.1	5370.4	5426.3	5386.9
27.5°	6255.1	6195.9	6156.4	5998.5	5916.3	5702.6	5653.2	5626.9	5640.1	5663.1
30°	6672.7	6705.6	6616.8	6505.0	6297.8	6080.8	5965.7	5942.6	5896.6	5857.1
32.5°	7268.0	7218.6	7166.0	7093.7	6916.1	6630.0	6518.2	6432.7	6294.5	6110.4
35°	7554.1	7695.5	7656.0	7462.0	7327.2	7218.6	7185.8	7054.2	6939.1	6649.7
37.5°	8030.9	8090.1	8034.2	7971.8	7909.3	7794.2	7754.7	7790.9	7564.0	7087.1
40°	8340.1	8465.1	8580.2	8405.9	8392.7	8415.7	8172.4	8129.6	7662.6	7412.7
42.5°	8971.5	9024.1	9047.1	9040.6	9116.2	9116.2	8652.5	8560.4	8228.3	8024.4
45°	9806.8	9849.6	9931.8	9991.0	9905.5	9948.2	9287.2	9251.0	8955.1	8915.6
47.5°	10530.3	10632.3	10816.5	10990.8	11102.6	10957.9	10234.4	9977.8	9902.2	10139.0
50°	11161.8	11040.1	11470.9	11648.5	12138.5	12378.6	11280.2	11178.2	11056.5	11510.4
52.5°	11224.3	11388.7	11997.1	12352.3	13361.9	13805.9	12562.7	12520.0	12372.0	12894.9
55°	11671.5	11651.8	12263.5	13033.0	14233.4	14979.9	14233.4	14207.1	13884.8	14381.4
57.5°	11595.9	11796.5	12279.9	13355.3	15019.4	16239.5	16170.4	15989.5	15539.0	15943.5
60°	11339.4	11392.0	11980.6	13345.4	15476.5	17531.9	18262.0	18298.2	17377.4	17699.7
62.5°	9885.8	10007.4	10754.0	12296.4	15150.9	18423.2	20304.3	20176.0	19439.4	19071.0
65°	7863.2	7741.5	8517.7	10185.0	13125.1	17791.7	21198.8	21675.7	20518.1	19843.9
67.5°	4821.2	4791.6	5538.1	7008.2	9820.0	15141.1	20485.2	20856.8	20218.8	19679.4
70°	2483.0	2407.3	2874.3	3910.2	6172.8	11109.1	17827.9	18193.0	18801.4	17650.3
72.5°	1157.6	1141.2	1391.1	1923.9	3144.0	6531.3	13805.9	14069.0	15351.5	14881.3
75°	680.8	690.6	832.0	1006.3	1532.5	3078.2	9162.3	9672.0	11063.1	10724.4
77.5°	509.7	509.7	592.0	700.5	894.5	1190.5	4521.9	5196.1	6468.8	5817.7
80°	374.9	381.5	453.8	526.2	621.6	615.0	1795.6	2104.8	2966.4	2535.6
82.5°	292.7	302.6	351.9	391.4	437.4	371.6	736.7	792.6	1220.1	970.2
85°	203.9	210.5	276.2	266.4	266.4	207.2	305.8	322.3	483.4	460.4
87.5°	49.3	55.9	134.8	148.0	111.8	62.5	95.4	108.5	174.3	200.6
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°
3772.1	0°	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1	3772.1
3837.9	2.5°	3788.6	3801.7	3857.6	3828.0	3844.5	3775.4	3831.3	3785.3	3824.7	3805.0
3867.5	5°	3893.8	3864.2	3897.1	3874.1	3874.1	3900.4	3939.8	3910.2	3969.4	3943.1
3890.5	7.5°	3936.5	3939.8	3959.6	3962.9	3946.4	4028.6	4031.9	4022.1	4078.0	4064.8
4048.4	10°	4041.8	4045.1	4081.2	4101.0	4084.5	4114.1	4081.2	4054.9	4051.6	4038.5
4173.3	12.5°	4209.5	4242.4	4235.8	4252.3	4255.5	4130.6	4054.9	3926.7	3910.2	3926.7
4357.5	15°	4364.1	4350.9	4357.5	4390.4	4252.3	4051.6	3916.8	3808.3	3814.9	3818.2
4597.6	17.5°	4548.2	4558.1	4568.0	4416.7	4163.5	3926.7	3808.3	3808.3	3775.4	3788.6
4765.3	20°	4758.7	4719.3	4633.7	4420.0	4008.9	3782.0	3745.8	3745.8	3706.3	3680.0
4946.2	22.5°	4923.1	4844.2	4716.0	4318.0	3870.8	3726.1	3637.3	3574.8	3528.7	3476.1
5146.8	25°	5028.4	4985.6	4735.7	4212.8	3768.8	3578.1	3446.5	3351.2	3292.0	3222.9
5304.6	27.5°	5189.5	5107.3	4791.6	4091.1	3657.0	3430.1	3226.2	3078.2	2966.4	2894.0
5544.7	30°	5406.6	5288.2	4752.1	3916.8	3486.0	3173.6	2933.5	2742.8	2614.5	2555.3
5771.6	32.5°	5584.2	5429.6	4719.3	3759.0	3295.3	2913.8	2594.8	2400.7	2328.4	2252.7
6153.1	35°	5922.9	5617.1	4696.2	3670.2	3124.2	2654.0	2318.5	2150.8	2058.7	1946.9
6380.0	37.5°	6182.7	5942.6	4640.3	3486.0	2903.9	2400.7	2108.0	1956.8	1818.6	1700.2
6906.2	40°	6590.5	6396.5	4643.6	3226.2	2644.1	2183.7	1943.6	1785.8	1611.5	1509.5
7685.6	42.5°	7356.8	6843.7	4663.3	3019.0	2351.4	2006.1	1795.6	1608.2	1433.9	1348.4
8573.6	45°	8297.3	7458.7	4541.7	2831.6	2052.1	1838.4	1618.0	1430.6	1318.8	1256.3
9780.5	47.5°	9379.3	8060.5	4377.2	2479.7	1802.2	1660.8	1453.6	1345.1	1262.9	1226.7
11336.1	50°	10589.5	8922.2	4331.2	2157.4	1608.2	1509.5	1374.7	1292.4	1236.5	1193.8
13088.9	52.5°	12148.4	9925.2	4239.1	1825.2	1440.4	1387.8	1345.1	1289.2	1239.8	1203.7
14723.4	55°	13638.1	11036.8	4140.4	1552.3	1322.0	1328.6	1351.6	1302.3	1259.6	1203.7
16555.2	57.5°	15315.4	12171.4	3775.4	1351.6	1233.3	1299.0	1345.1	1289.2	1246.4	1203.7
18429.7	60°	16351.3	12809.4	3061.8	1177.3	1154.3	1243.1	1305.6	1246.4	1200.4	1216.8
19291.4	62.5°	16772.2	12473.9	2308.7	1068.8	1098.4	1167.5	1243.1	1220.1	1187.2	1249.7
19281.5	65°	16055.3	11701.1	1650.9	976.7	1022.8	1091.8	1187.2	1213.5	1223.4	1345.1
17709.5	67.5°	14286.0	10188.3	1213.5	901.1	943.9	1045.8	1226.7	1269.4	1262.9	1414.1
14861.5	70°	11431.4	7968.5	947.1	838.6	914.3	1082.0	1282.6	1282.6	1236.5	1414.1
11336.1	72.5°	8317.1	5617.1	815.6	766.3	838.6	993.2	1276.0	1272.7	1213.5	1292.4
7218.6	75°	5035.0	3268.9	720.2	693.9	720.2	851.8	1220.1	1200.4	1118.1	1111.6
3472.8	77.5°	2509.3	1644.3	588.7	615.0	628.1	713.6	1072.1	1101.7	989.9	963.6
1371.4	80°	1059.0	716.9	490.0	529.5	529.5	601.8	891.2	911.0	822.2	772.8
542.6	82.5°	483.4	411.1	417.7	460.4	430.8	467.0	707.1	730.1	667.6	585.4
230.2	85°	203.9	233.5	319.0	361.8	319.0	302.6	486.7	513.0	434.1	361.8
98.7	87.5°	92.1	128.3	200.6	263.1	161.1	141.4	259.8	269.7	217.1	161.1
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>
3772.1
3768.8
3906.9
4045.1
4038.5
3933.3
3864.2
3791.8
3640.6
3446.5
3236.1
2926.9
2588.2
2249.5
1937.0
1703.5
1519.4
1354.9
1269.4
1220.1
1200.4
1200.4
1200.4
1200.4
1203.7
1233.3
1345.1
1424.0
1384.5
1246.4
1098.4
947.1
756.4
572.2
365.0
151.3
0.0

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