

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: P477362

Luminaire Tested: **IFLD-L-SA7A-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477362  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

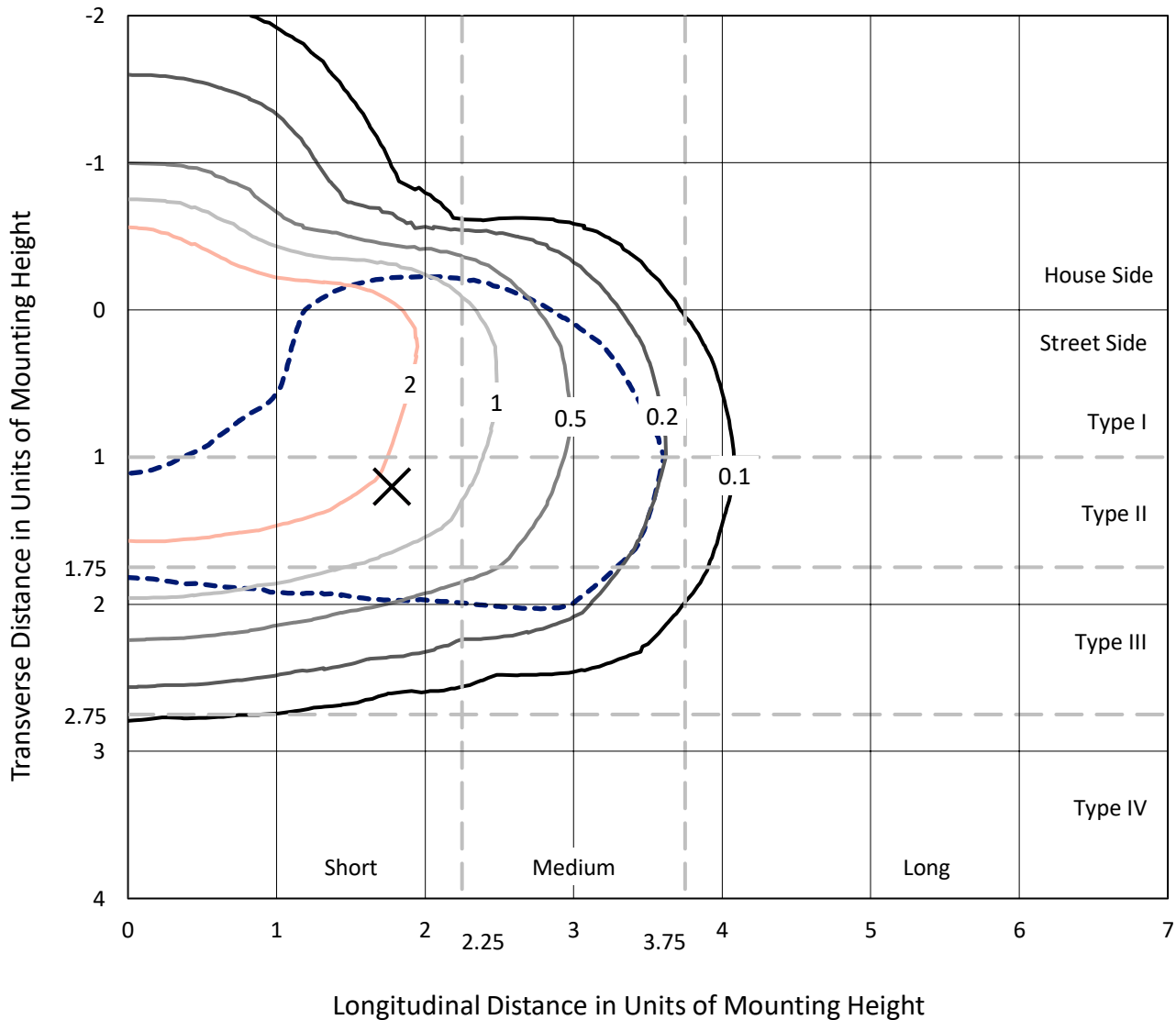
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31443.5 lumens  
Efficiency: N/A  
Efficacy: 144.5 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): 217.6  
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

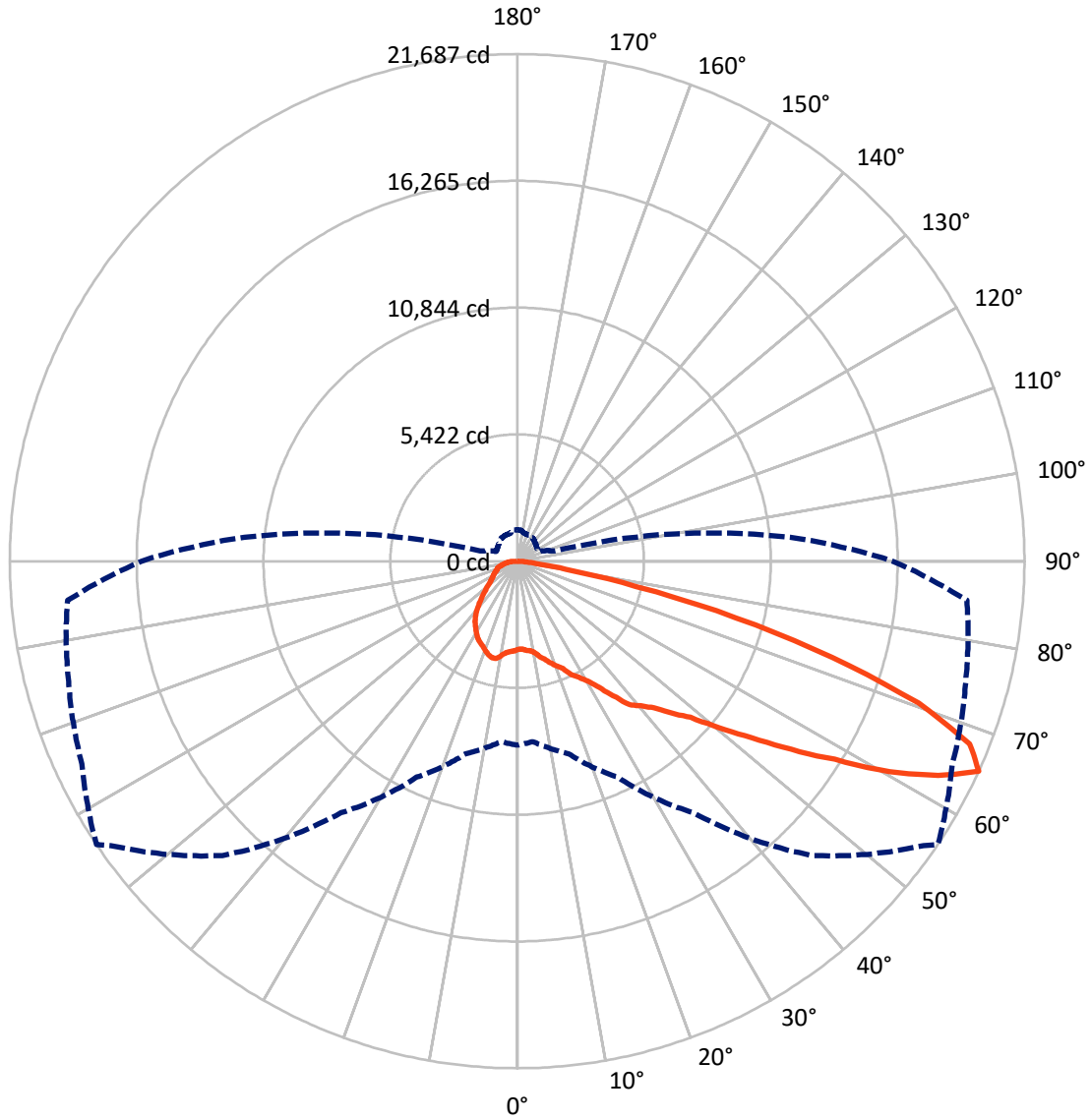
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	7051.8	0.0	7051.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	24391.7	0.0	24391.7
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	31443.5	0.0	31443.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.0	1.2
10°-20°	1214.4	3.9
20°-30°	2162.4	6.9
30°-40°	3238.1	10.3
40°-50°	4797.6	15.3
50°-60°	7392.5	23.5
60°-70°	8369.2	26.6
70°-80°	3473.3	11.0
80°-90°	422.0	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°	31443.5	100.0
0°-180°	31443.5	100.0

**Coefficient of Utilization**

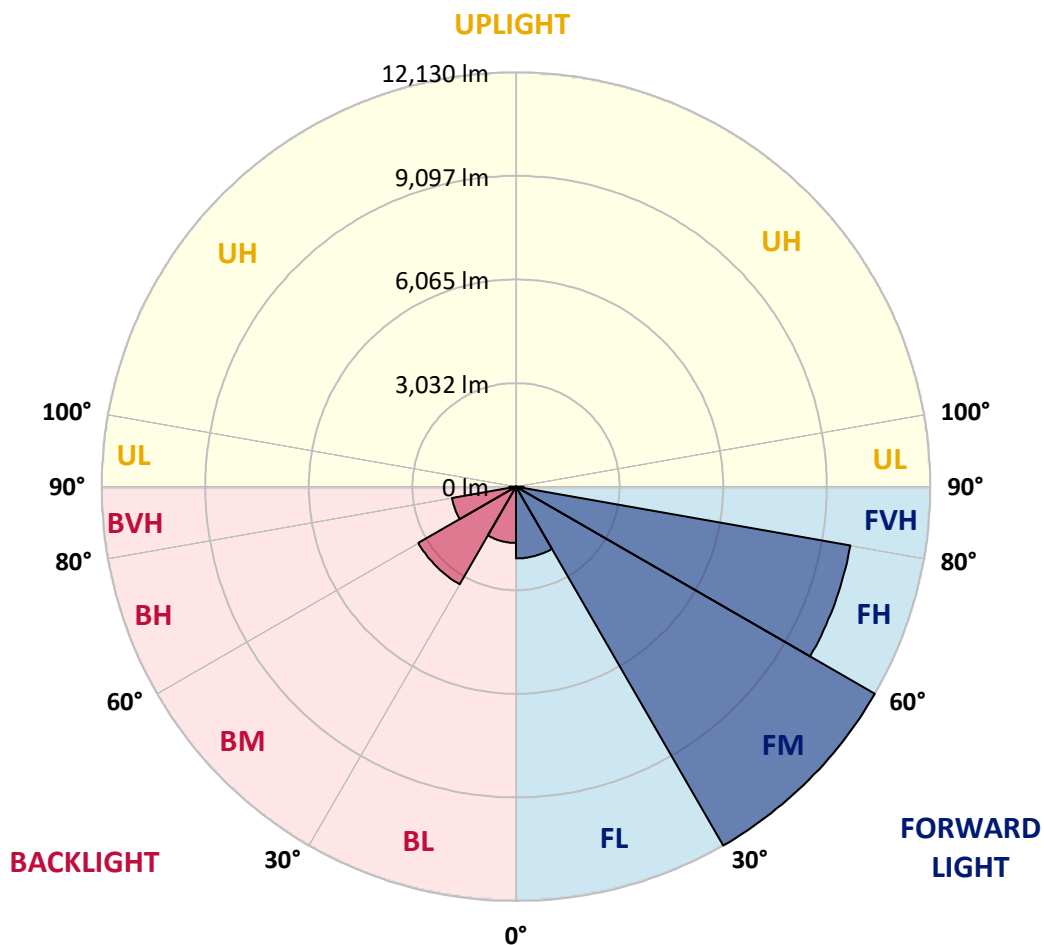


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.3	6.7			
FM (30°-60°)	12129.5	38.6			
FH (60°-80°)	9938.3	31.6			G4/12000
FVH (80°-90°)	222.6	0.7			G2/225
BL (0°-30°)	1649.5	5.2	B3/2500		
BM (30°-60°)	3298.7	10.5	B3/5000		
BH (60°-80°)	1904.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	199.4	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°	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1
2.5°	3675.4	3695.1	3682.0	3721.5	3754.4	3754.4	3780.7	3761.0	3787.3	3823.5
5°	3797.1	3718.2	3761.0	3780.7	3770.8	3787.3	3761.0	3826.8	3784.0	3853.1
7.5°	3826.8	3856.4	3892.6	3859.7	3889.3	3872.8	3876.1	3866.2	3843.2	3899.1
10°	4043.9	4001.2	4083.4	4034.1	4027.5	4020.9	4007.7	3958.4	4014.3	4017.6
12.5°	4294.0	4254.5	4251.2	4211.7	4264.4	4169.0	4188.7	4162.4	4172.3	4185.4
15°	4475.0	4458.5	4534.2	4488.1	4419.0	4376.3	4422.3	4349.9	4386.1	4379.6
17.5°	4833.6	4830.3	4774.4	4698.7	4659.2	4596.7	4586.8	4557.2	4583.6	4570.4
20°	5083.7	5119.9	5129.8	5040.9	4889.6	4820.5	4804.0	4781.0	4810.6	4800.7
22.5°	5465.4	5409.5	5452.2	5297.6	5241.6	5077.1	5017.9	4985.0	5126.5	5090.3
25°	5708.9	5768.1	5725.3	5672.7	5547.6	5343.6	5300.9	5373.3	5429.2	5389.7
27.5°	6258.4	6199.2	6159.7	6001.7	5919.5	5705.6	5656.2	5629.9	5643.1	5666.1
30°	6676.3	6709.2	6620.3	6508.5	6301.2	6084.0	5968.8	5945.8	5899.7	5860.2
32.5°	7271.8	7222.5	7169.8	7097.4	6919.8	6633.5	6521.6	6436.1	6297.9	6113.6
35°	7558.1	7699.6	7660.1	7466.0	7331.1	7222.5	7189.6	7058.0	6942.8	6653.2
37.5°	8035.2	8094.4	8038.5	7976.0	7913.5	7798.3	7758.8	7795.0	7568.0	7090.9
40°	8344.5	8469.5	8584.7	8410.3	8397.2	8420.2	8176.7	8133.9	7666.7	7416.6
42.5°	8976.3	9028.9	9051.9	9045.4	9121.0	9121.0	8657.1	8565.0	8232.6	8028.6
45°	9812.0	9854.8	9937.1	9996.3	9910.7	9953.5	9292.1	9256.0	8959.8	8920.3
47.5°	10535.9	10637.9	10822.2	10996.6	11108.5	10963.7	10239.8	9983.1	9907.5	10144.4
50°	11167.7	11045.9	11477.0	11654.7	12144.9	12385.1	11286.1	11184.1	11062.4	11516.5
52.5°	11230.2	11394.7	12003.5	12358.8	13369.0	13813.2	12569.4	12526.6	12378.6	12901.7
55°	11677.7	11658.0	12270.0	13039.9	14240.9	14987.9	14240.9	14214.6	13892.2	14389.0
57.5°	11602.0	11802.7	12286.4	13362.4	15027.4	16248.1	16179.0	15998.0	15547.2	15952.0
60°	11345.4	11398.0	11987.0	13352.5	15484.7	17541.2	18271.7	18307.9	17386.6	17709.0
62.5°	9891.0	10012.8	10759.7	12302.9	15159.0	18432.9	20315.1	20186.7	19449.7	19081.2
65°	7867.4	7745.7	8522.2	10190.4	13132.1	17801.2	21210.1	21687.2	20528.9	19854.4
67.5°	4823.8	4794.1	5541.1	7011.9	9825.2	15149.1	20496.0	20867.8	20229.5	19689.9
70°	2484.3	2408.6	2875.8	3912.3	6176.1	11115.0	17837.4	18202.6	18811.3	17659.7
72.5°	1158.2	1141.8	1391.8	1924.9	3145.6	6534.8	13813.2	14076.4	15359.7	14889.2
75°	681.1	691.0	832.5	1006.9	1533.3	3079.8	9167.1	9677.1	11069.0	10730.1
77.5°	510.0	510.0	592.3	700.9	895.0	1191.1	4524.3	5198.9	6472.3	5820.8
80°	375.1	381.7	454.1	526.5	621.9	615.3	1796.6	2105.9	2968.0	2536.9
82.5°	292.8	302.7	352.1	391.6	437.6	371.8	737.1	793.0	1220.7	970.7
85°	204.0	210.6	276.4	266.5	266.5	207.3	306.0	322.5	483.7	460.7
87.5°	49.4	55.9	134.9	148.1	111.9	62.5	95.4	108.6	174.4	200.7
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°
3774.1	0°	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1
3839.9	2.5°	3790.6	3803.7	3859.7	3830.0	3846.5	3777.4	3833.3	3787.3	3826.8	3807.0
3869.5	5°	3895.9	3866.2	3899.1	3876.1	3876.1	3902.4	3941.9	3912.3	3971.5	3945.2
3892.6	7.5°	3938.6	3941.9	3961.7	3965.0	3948.5	4030.8	4034.1	4024.2	4080.1	4067.0
4050.5	10°	4043.9	4047.2	4083.4	4103.2	4086.7	4116.3	4083.4	4057.1	4053.8	4040.6
4175.5	12.5°	4211.7	4244.6	4238.1	4254.5	4257.8	4132.8	4057.1	3928.8	3912.3	3928.8
4359.8	15°	4366.4	4353.2	4359.8	4392.7	4254.5	4053.8	3918.9	3810.3	3816.9	3820.2
4600.0	17.5°	4550.7	4560.5	4570.4	4419.0	4165.7	3928.8	3810.3	3810.3	3777.4	3790.6
4767.8	20°	4761.2	4721.8	4636.2	4422.3	4011.0	3784.0	3747.8	3747.8	3708.3	3682.0
4948.8	22.5°	4925.8	4846.8	4718.5	4320.3	3872.8	3728.0	3639.2	3576.7	3530.6	3478.0
5149.5	25°	5031.1	4988.3	4738.2	4215.0	3770.8	3580.0	3448.4	3352.9	3293.7	3224.6
5307.4	27.5°	5192.3	5110.0	4794.1	4093.3	3658.9	3431.9	3227.9	3079.8	2968.0	2895.6
5547.6	30°	5409.5	5291.0	4754.7	3918.9	3487.8	3175.3	2935.1	2744.2	2615.9	2556.7
5774.7	32.5°	5587.1	5432.5	4721.8	3761.0	3297.0	2915.3	2596.1	2402.0	2329.6	2253.9
6156.4	35°	5926.0	5620.0	4698.7	3672.1	3125.9	2655.4	2319.7	2151.9	2059.8	1947.9
6383.4	37.5°	6186.0	5945.8	4642.8	3487.8	2905.4	2402.0	2109.2	1957.8	1819.6	1701.1
6909.9	40°	6594.0	6399.9	4646.1	3227.9	2645.5	2184.8	1944.6	1786.7	1612.3	1510.3
7689.7	42.5°	7360.7	6847.4	4665.8	3020.6	2352.7	2007.2	1796.6	1609.0	1434.6	1349.1
8578.1	45°	8301.7	7462.7	4544.1	2833.1	2053.2	1839.3	1618.9	1431.3	1319.5	1256.9
9785.7	47.5°	9384.3	8064.8	4379.6	2481.0	1803.2	1661.7	1454.4	1345.8	1263.5	1227.3
11342.1	50°	10595.2	8926.9	4333.5	2158.5	1609.0	1510.3	1375.4	1293.1	1237.2	1194.4
13095.9	52.5°	12154.8	9930.5	4241.4	1826.2	1441.2	1388.6	1345.8	1289.8	1240.5	1204.3
14731.2	55°	13645.4	11042.7	4142.6	1553.1	1322.7	1329.3	1352.4	1303.0	1260.2	1204.3
16564.0	57.5°	15323.5	12177.8	3777.4	1352.4	1233.9	1299.7	1345.8	1289.8	1247.1	1204.3
18439.5	60°	16360.0	12816.2	3063.4	1178.0	1154.9	1243.8	1306.3	1247.1	1201.0	1217.5
19301.6	62.5°	16781.1	12480.6	2309.9	1069.4	1099.0	1168.1	1243.8	1220.7	1187.8	1250.4
19291.7	65°	16063.8	11707.3	1651.8	977.3	1023.3	1092.4	1187.8	1214.2	1224.0	1345.8
17718.9	67.5°	14293.6	10193.7	1214.2	901.6	944.4	1046.4	1227.3	1270.1	1263.5	1414.9
14869.4	70°	11437.5	7972.7	947.6	839.1	914.7	1082.5	1283.3	1283.3	1237.2	1414.9
11342.1	72.5°	8321.5	5620.0	816.0	766.7	839.1	993.7	1276.7	1273.4	1214.2	1293.1
7222.5	75°	5037.6	3270.7	720.6	694.3	720.6	852.2	1220.7	1201.0	1118.7	1112.2
3474.7	77.5°	2510.6	1645.2	589.0	615.3	628.5	714.0	1072.7	1102.3	990.4	964.1
1372.1	80°	1059.5	717.3	490.3	529.8	529.8	602.1	891.7	911.4	822.6	773.2
542.9	82.5°	483.7	411.3	417.9	460.7	431.0	467.2	707.4	730.5	668.0	585.7
230.3	85°	204.0	233.6	319.2	361.9	319.2	302.7	487.0	513.3	434.3	361.9
98.7	87.5°	92.1	128.3	200.7	263.2	161.2	141.5	259.9	269.8	217.2	161.2
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>
3774.1
3770.8
3909.0
4047.2
4040.6
3935.3
3866.2
3793.9
3642.5
3448.4
3237.8
2928.5
2589.6
2250.6
1938.1
1704.4
1520.2
1355.7
1270.1
1220.7
1201.0
1201.0
1201.0
1201.0
1204.3
1233.9
1345.8
1424.8
1385.3
1247.1
1099.0
947.6
756.8
572.5
365.2
151.4
0.0

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