

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: P477910

Luminaire Tested: **IFLD-L-SA7C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477910
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

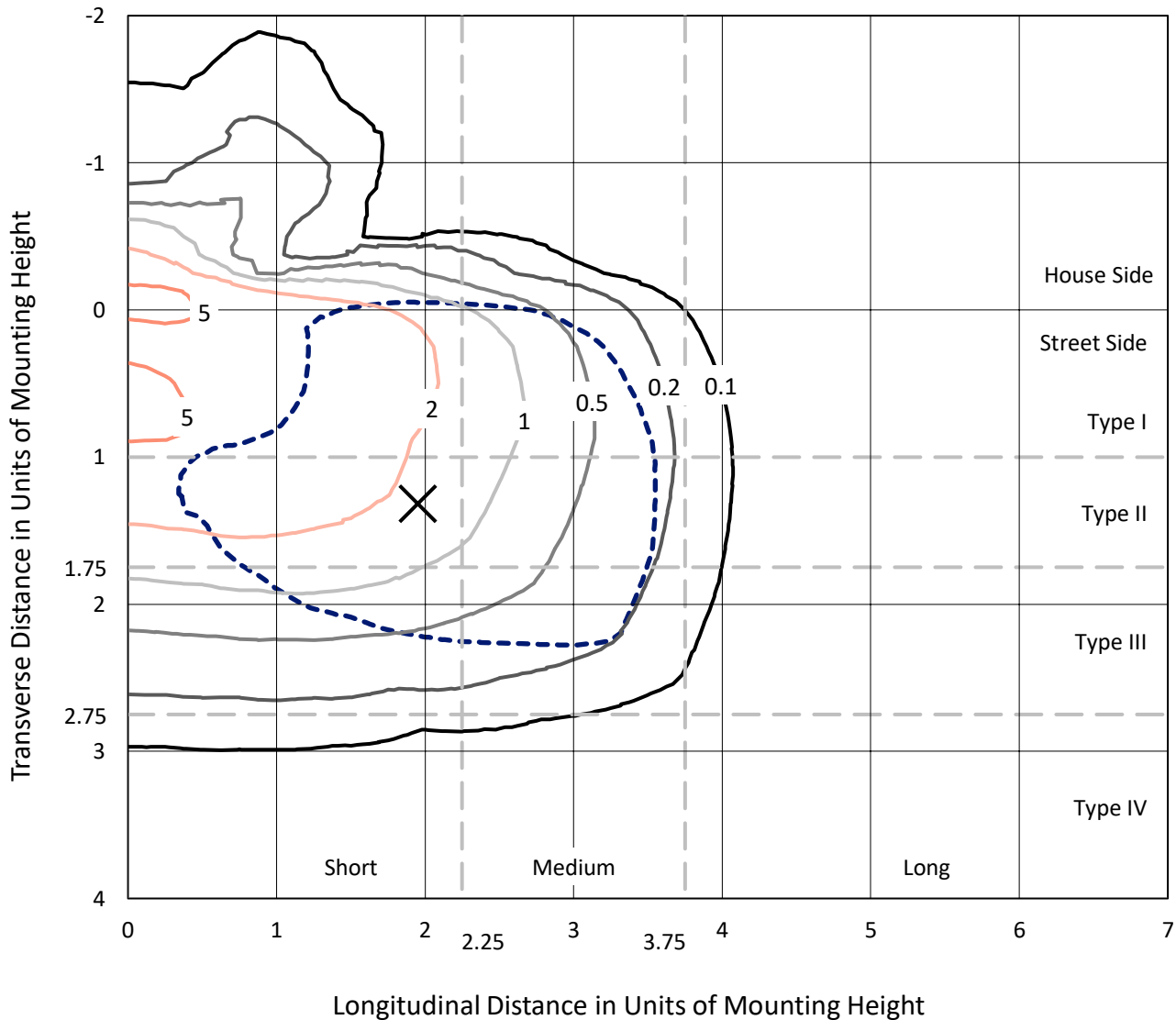
Lumens per Lamp: N/A
Luminaire Lumens: 32010.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

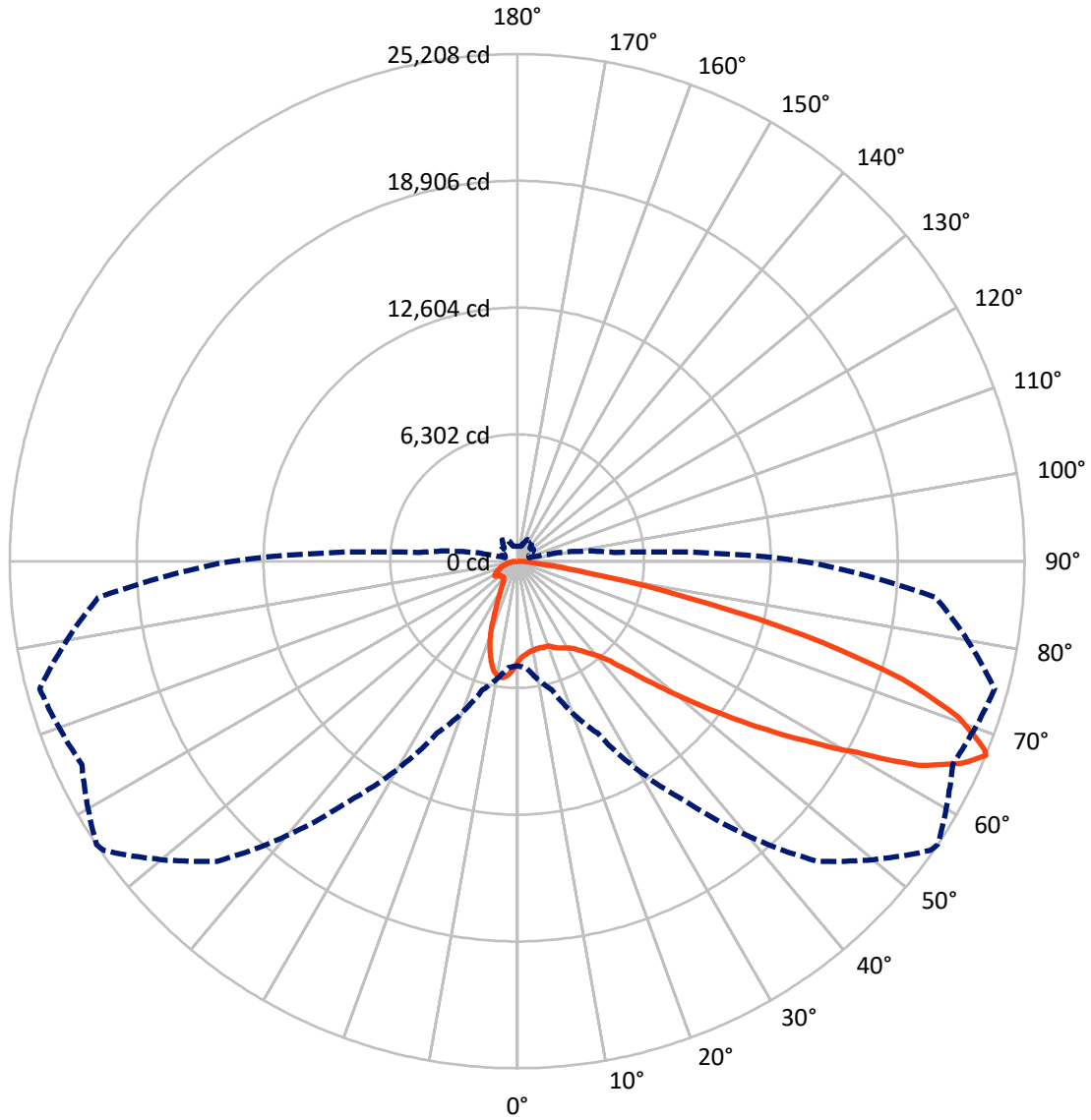
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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
House Side	Lumens	5067.6	0.0	5067.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	26943.1	0.0	26943.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	32010.7	0.0	32010.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.8	1.5
10°-20°	1309.0	4.1
20°-30°	2053.0	6.4
30°-40°	2930.7	9.2
40°-50°	4423.2	13.8
50°-60°	7041.0	22.0
60°-70°	9001.3	28.1
70°-80°	4388.8	13.7
80°-90°	383.9	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°	32010.7	100.0
0°-180°	32010.7	100.0

Coefficient of Utilization



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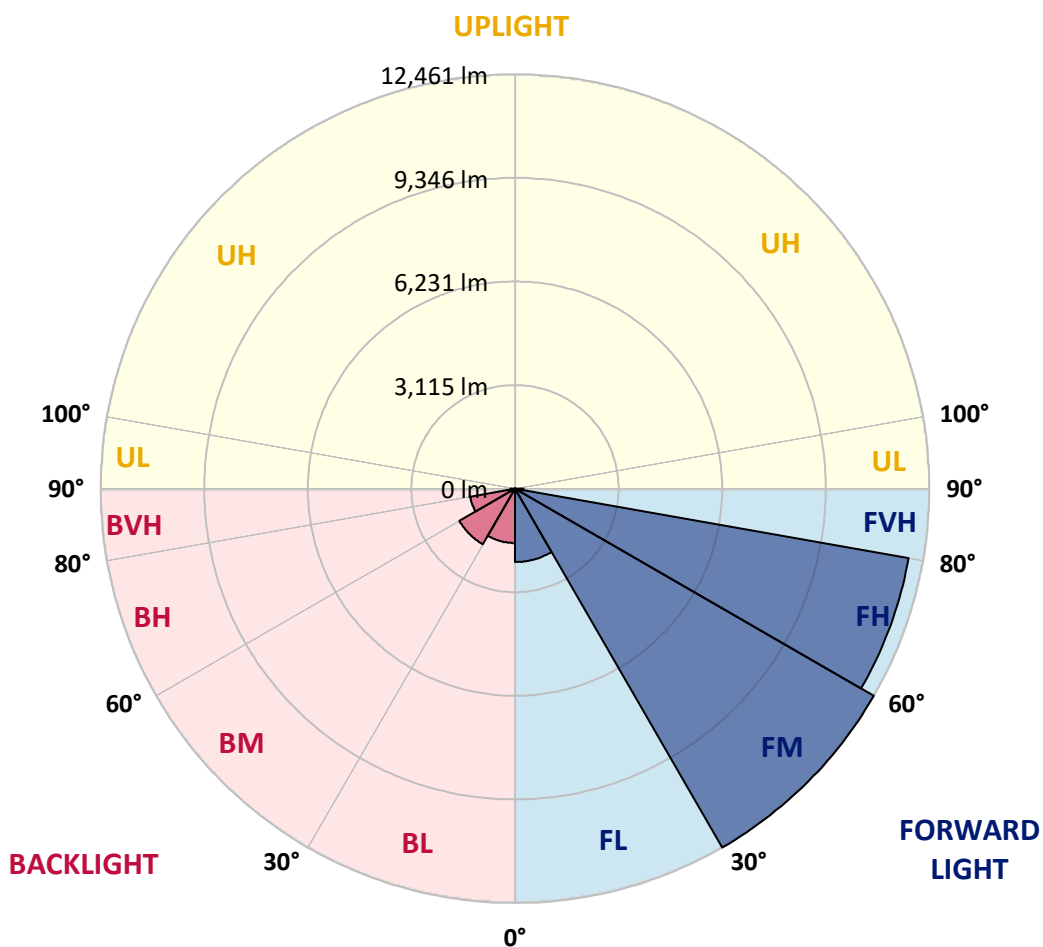
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.9	6.9			
FM (30°-60°)	12461.5	38.9			
FH (60°-80°)	12020.7	37.6			G5
FVH (80°-90°)	255.0	0.8			G3/500
BL (0°-30°)	1636.0	5.1	B3/2500		
BM (30°-60°)	1933.4	6.0	B2/2500		
BH (60°-80°)	1369.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	128.9	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8
2.5°	4575.4	4556.6	4579.2	4556.6	4658.0	4718.0	4736.8	4763.1	4856.9	4947.0
5°	4384.0	4301.4	4391.5	4421.5	4429.0	4530.4	4635.5	4654.2	4703.0	4849.4
7.5°	4064.9	4158.8	4125.0	4215.1	4308.9	4410.3	4582.9	4534.1	4714.3	4853.2
10°	3997.4	4004.9	4042.4	4076.2	4158.8	4290.2	4530.4	4500.3	4684.3	4980.8
12.5°	4064.9	4064.9	4053.7	4027.4	4121.2	4248.9	4440.3	4455.3	4744.3	5018.3
15°	4301.4	4346.5	4226.3	4245.1	4207.6	4248.9	4417.8	4451.6	4766.8	5048.3
17.5°	4879.4	4864.4	4721.8	4522.9	4357.7	4331.4	4447.8	4485.3	4744.3	5134.7
20°	5442.5	5412.4	5164.7	4958.3	4631.7	4477.8	4496.6	4500.3	4781.9	5191.0
22.5°	6069.3	6148.1	5877.8	5457.5	5052.1	4669.2	4594.2	4654.2	4868.2	5221.0
25°	7052.7	6883.8	6651.1	6099.3	5446.2	4965.8	4755.6	4785.6	4950.8	5296.1
27.5°	7762.1	7694.5	7330.4	6883.8	5998.0	5198.5	4841.9	4898.2	5100.9	5292.3
30°	8445.2	8445.2	8223.7	7555.6	6579.7	5588.8	5025.8	4999.5	5029.6	5284.8
32.5°	9244.7	9135.8	8816.8	8373.9	7311.7	5945.4	5172.2	5179.7	5179.7	5423.7
35°	9665.0	9841.5	9627.5	8906.9	7870.9	6538.4	5525.0	5468.7	5427.4	5577.6
37.5°	10280.6	10385.7	10160.5	9736.4	8565.3	7018.9	5836.6	5791.5	5551.3	5697.7
40°	10652.2	10633.4	10625.9	10430.7	9484.9	7585.7	6294.5	6178.1	5855.3	6121.8
42.5°	10862.4	10824.8	11286.5	11166.4	10351.9	8418.9	6868.7	6804.9	6448.4	6876.3
45°	11098.8	11376.6	11755.7	12093.5	11361.6	9590.0	7840.9	7750.8	7431.8	7976.0
47.5°	11305.3	11646.8	12131.0	12491.4	12273.7	10862.4	9042.0	9064.5	8854.3	9413.6
50°	11650.6	11684.4	12341.2	13069.4	13238.3	12037.2	10655.9	10618.4	10524.6	11309.0
52.5°	11545.5	11646.8	12476.4	13407.2	13685.0	13279.6	12390.0	12502.6	12378.8	13365.9
55°	9833.9	10138.0	12393.8	13763.8	14743.4	14683.4	14619.6	14544.5	14537.0	15678.0
57.5°	9057.0	9304.7	10918.7	14157.9	15876.9	16319.8	16732.7	16815.3	16811.5	18189.0
60°	8546.5	8801.8	10321.9	13943.9	16841.6	18463.0	19255.0	19266.3	19243.8	20872.7
62.5°	7548.1	7795.8	9289.7	12772.9	17108.1	20441.1	22205.2	22351.6	21319.4	23184.8
65°	6347.0	6549.7	7867.2	10982.5	16398.7	21698.5	24423.5	24250.8	23068.5	24506.0
67°	5191.0	5326.1	6609.8	9428.6	14544.5	21094.2	25065.3	25207.9	23875.5	24562.3
67.5°	4860.7	4984.5	6196.9	8899.3	13838.8	20636.3	25087.8	25065.3	23890.5	24573.6
70°	3374.3	3426.9	4222.6	6121.8	10194.3	17434.6	23256.2	23308.7	22888.3	23241.1
72.5°	2237.0	2315.9	2822.6	3858.5	6009.2	12686.5	19438.9	20001.9	19735.5	19056.1
75°	1441.3	1486.4	1846.7	2297.1	2957.7	7225.3	14360.6	14735.9	14124.1	11785.7
77.5°	807.0	855.8	1114.8	1396.3	1441.3	3006.5	8066.1	8531.5	7229.1	5007.1
80°	503.0	566.8	840.8	829.5	686.9	1103.5	3325.5	3562.0	2890.1	1722.8
82.5°	379.1	427.9	649.3	581.8	386.6	491.7	1246.1	1336.2	1058.5	664.4
85°	259.0	326.5	469.2	360.3	202.7	236.5	495.5	533.0	484.2	322.8
87.5°	93.8	138.9	244.0	180.2	90.1	71.3	161.4	180.2	172.7	146.4
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°
4980.8	0°	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8	4980.8
5025.8	2.5°	5097.1	5149.7	5176.0	5329.8	5393.7	5382.4	5397.4	5419.9	5442.5	5472.5
5089.6	5°	5138.4	5299.8	5386.2	5566.3	5686.4	5633.9	5701.4	5682.7	5656.4	5652.6
5206.0	7.5°	5273.5	5480.0	5739.0	5787.8	5840.3	5708.9	5596.3	5442.5	5404.9	5273.5
5303.6	10°	5513.8	5682.7	5998.0	6016.7	5784.0	5446.2	5194.7	4875.7	4871.9	4680.5
5453.7	12.5°	5742.7	5934.1	6189.4	6080.5	5525.0	5063.4	4654.2	4305.2	4158.8	4061.2
5543.8	15°	5885.4	6200.6	6335.8	5866.6	5070.9	4447.8	3918.6	3543.2	3393.1	3321.8
5656.4	17.5°	6016.7	6455.9	6395.8	5491.2	4511.6	3813.5	3182.9	2856.3	2815.1	2762.5
5836.6	20°	6196.9	6549.7	6181.9	5003.3	3877.3	2995.2	2593.6	2436.0	2473.5	2496.0
5855.3	22.5°	6365.8	6598.5	5911.6	4470.3	3062.8	2372.2	2173.2	2207.0	2263.3	2338.4
5900.4	25°	6440.9	6677.3	5547.5	3734.6	2330.9	1996.8	1951.8	2008.1	2101.9	2105.7
5964.2	27.5°	6489.7	6621.0	5108.4	3017.7	1842.9	1745.3	1812.9	1854.2	1865.4	1910.5
6099.3	30°	6576.0	6504.7	4552.9	2158.2	1546.4	1550.2	1636.5	1636.5	1636.5	1670.3
6234.4	32.5°	6726.1	6425.8	3903.6	1576.4	1332.5	1452.6	1430.1	1422.5	1407.5	1366.2
6407.1	35°	6820.0	6211.9	3081.6	1167.3	1197.3	1332.5	1325.0	1208.6	1013.4	915.8
6846.2	37.5°	7015.1	6103.1	2267.1	900.8	1118.5	1272.4	1231.1	949.6	735.7	641.8
7390.5	40°	7435.5	6031.7	1568.9	788.2	1066.0	1242.4	1099.8	810.7	563.0	397.9
8231.2	42.5°	7949.7	6035.5	1066.0	743.2	1069.7	1306.2	1058.5	694.4	397.9	319.0
9353.5	45°	8640.4	5979.2	731.9	743.2	1137.3	1411.3	1084.7	630.6	386.6	405.4
10761.0	47.5°	9383.5	6028.0	544.2	675.6	1148.5	1415.0	990.9	619.3	371.6	469.2
12292.4	50°	10250.6	6076.8	450.4	623.1	1152.3	1370.0	912.1	604.3	386.6	495.5
14049.0	52.5°	11143.9	6230.7	382.8	589.3	1197.3	1351.2	912.1	626.8	386.6	431.6
16286.1	55°	12476.4	6624.8	551.8	735.7	1362.5	1475.1	1122.3	878.3	540.5	555.5
18429.3	57.5°	13947.7	7030.1	615.6	773.2	1400.0	1328.7	1208.6	968.4	570.5	574.3
20095.8	60°	14916.1	7045.2	611.8	754.4	1309.9	1148.5	1182.3	1020.9	581.8	491.7
21128.0	62.5°	15302.7	6587.2	638.1	754.4	1219.9	1073.5	1212.4	1099.8	600.5	615.6
21420.7	65°	14863.5	5641.4	615.6	675.6	1073.5	960.9	1219.9	1114.8	656.8	619.3
20895.3	67°	14176.6	4860.7	626.8	641.8	998.4	912.1	1283.7	1171.1	761.9	743.2
20621.3	67.5°	13981.5	4654.2	623.1	623.1	972.1	897.1	1298.7	1171.1	777.0	769.5
18200.3	70°	12322.5	3772.2	638.1	615.6	859.5	852.0	1381.3	1234.9	893.3	900.8
13369.7	72.5°	9379.8	2860.1	634.3	615.6	746.9	814.5	1392.5	1276.2	972.1	900.8
7488.1	75°	5329.8	1711.6	559.3	536.7	589.3	709.4	1302.4	1216.1	945.9	807.0
2991.5	77.5°	2203.3	882.1	514.2	484.2	487.9	578.0	1084.7	1133.5	900.8	686.9
998.4	80°	822.0	529.2	412.9	386.6	375.3	424.1	773.2	904.6	769.5	563.0
439.1	82.5°	427.9	330.3	281.5	281.5	255.2	270.2	416.6	600.5	581.8	386.6
176.4	85°	217.7	187.7	161.4	157.6	142.6	127.6	210.2	356.6	334.1	213.9
78.8	87.5°	116.4	105.1	67.6	63.8	52.5	33.8	37.5	71.3	116.4	93.8
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



180°
4980.8
5502.5
5686.4
5318.6
4673.0
4038.7
3306.8
2788.8
2469.7
2297.1
2143.2
1951.8
1707.8
1343.7
960.9
638.1
386.6
311.5
412.9
521.7
574.3
442.9
585.5
555.5
506.7
623.1
608.1
731.9
754.4
833.3
799.5
720.7
649.3
514.2
304.0
176.4
67.6
0.0

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