

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: P477676

Luminaire Tested: **IFLD-L-SA7C-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477676
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

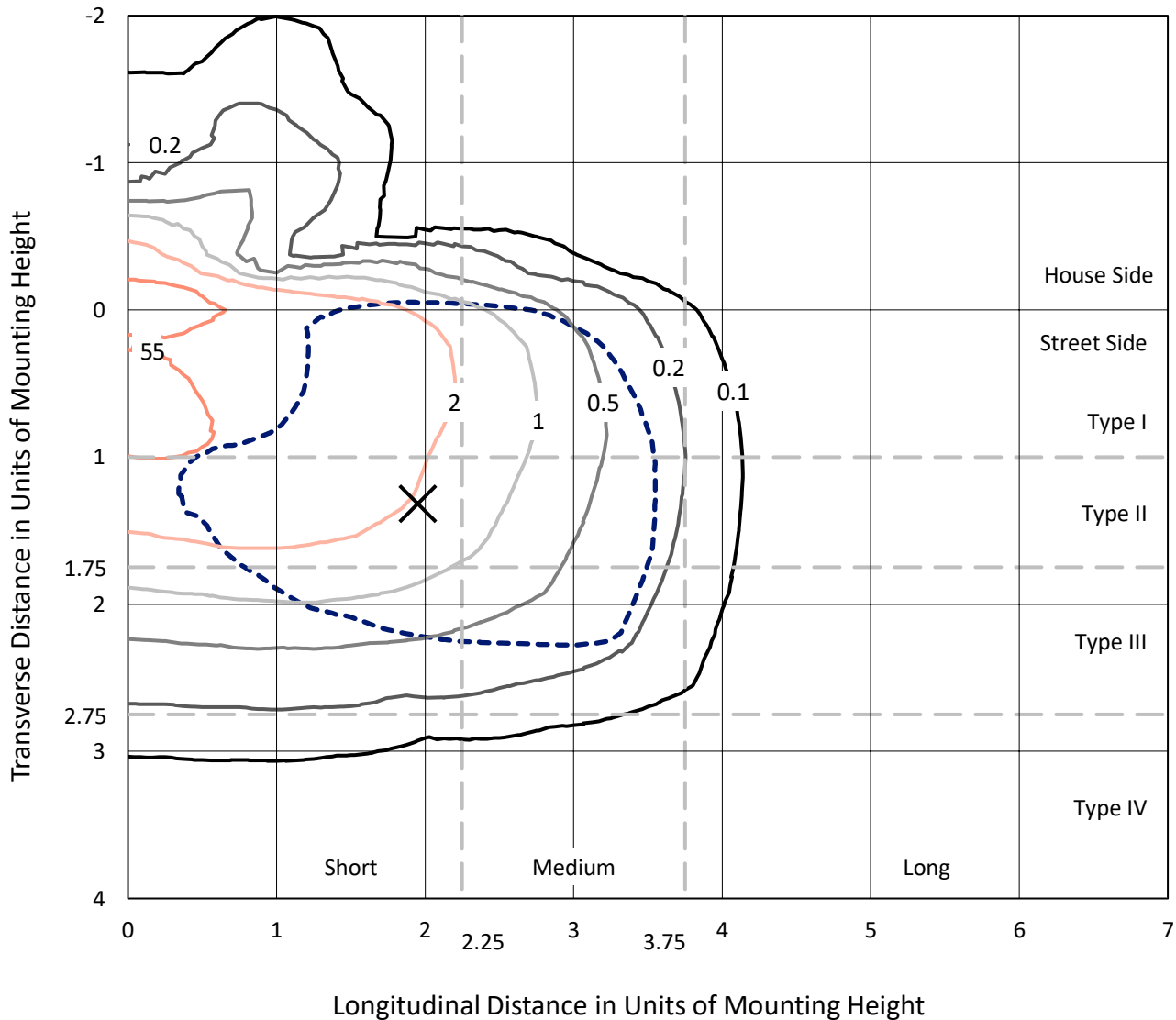
Lumens per Lamp: N/A
Luminaire Lumens: 36417.6 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

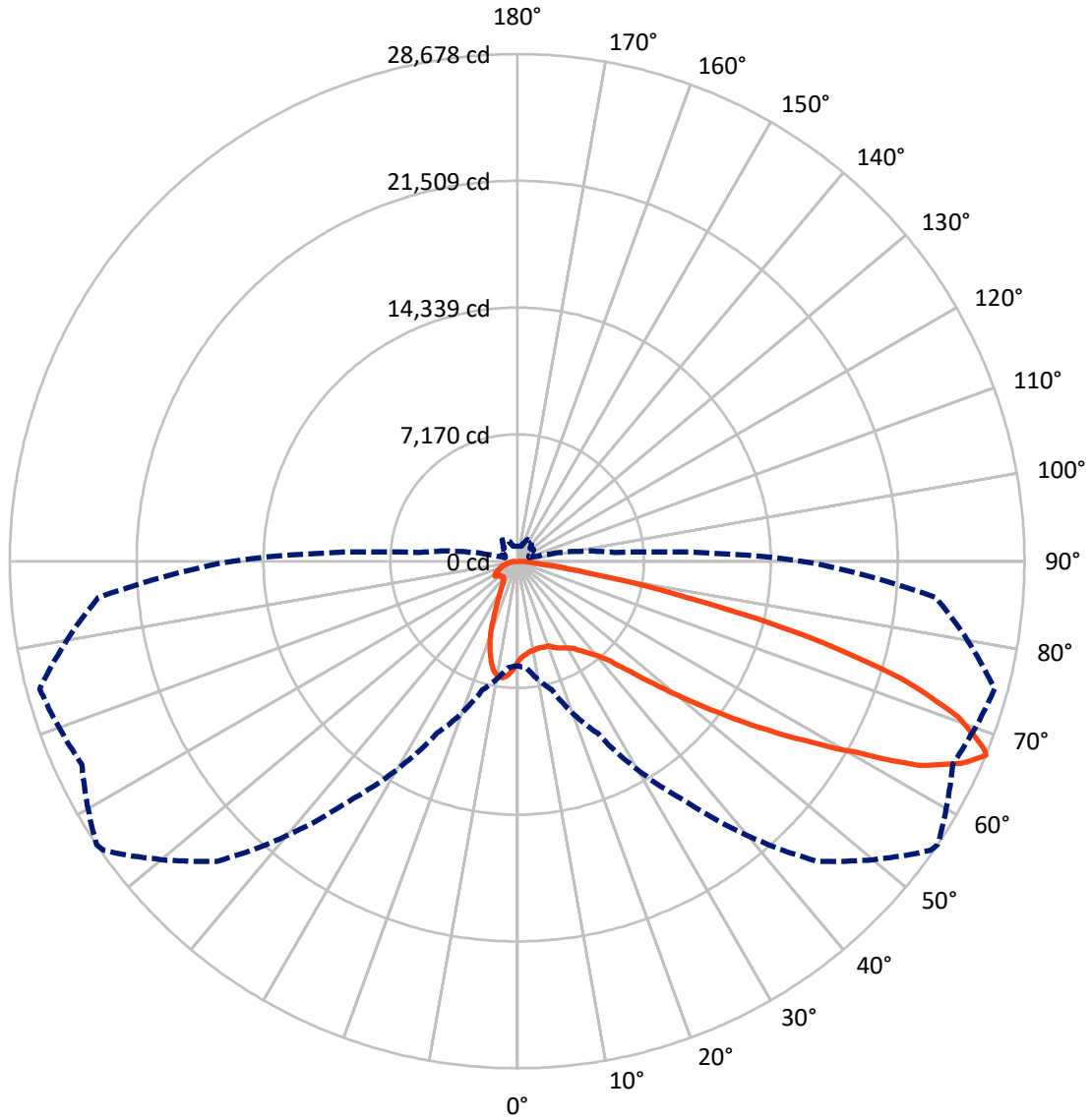
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	5765.3	0.0	5765.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	30652.3	0.0	30652.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	36417.6	0.0	36417.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.9	1.5
10°-20°	1489.3	4.1
20°-30°	2335.6	6.4
30°-40°	3334.1	9.2
40°-50°	5032.1	13.8
50°-60°	8010.3	22.0
60°-70°	10240.5	28.1
70°-80°	4992.9	13.7
80°-90°	436.8	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°	36417.6	100.0
0°-180°	36417.6	100.0

Coefficient of Utilization

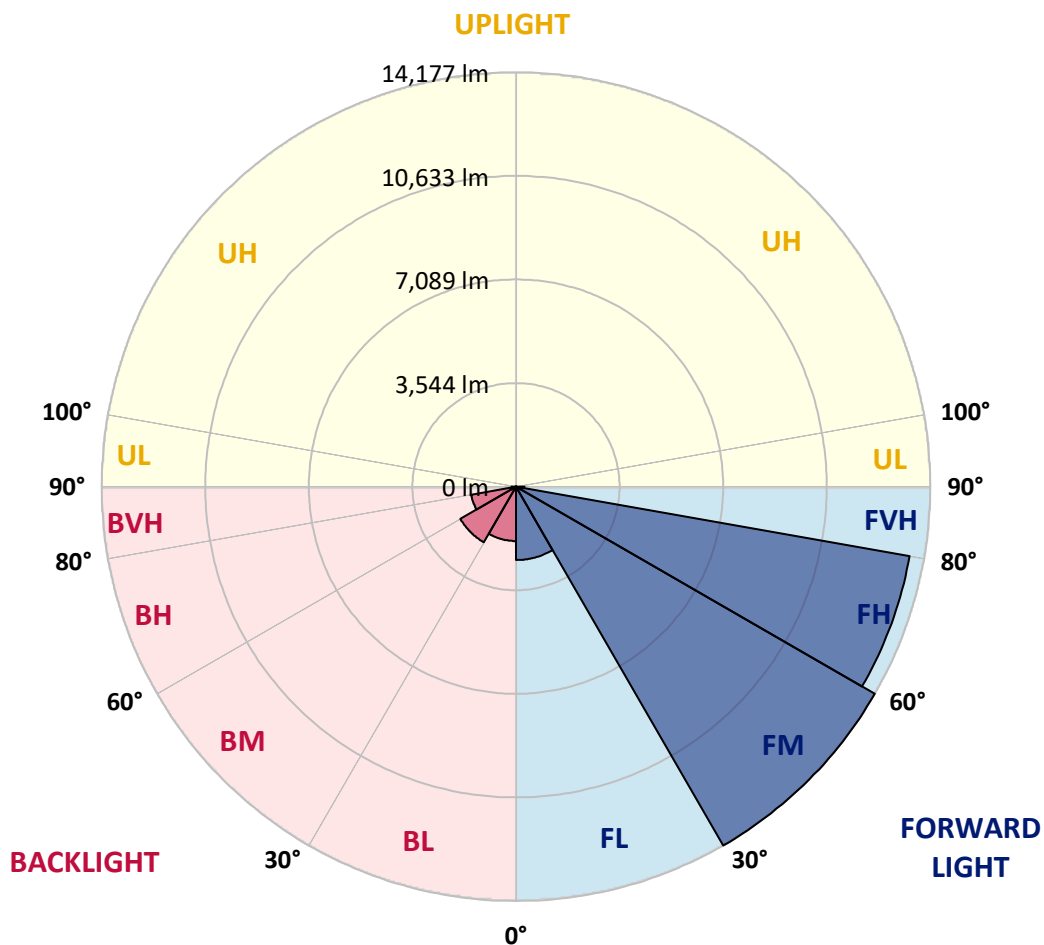


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2509.6	6.9			
FM (30°-60°)	14177.0	38.9			
FH (60°-80°)	13675.6	37.6			G5
FVH (80°-90°)	290.1	0.8			G3/500
BL (0°-30°)	1861.2	5.1	B3/2500		
BM (30°-60°)	2199.5	6.0	B2/2500		
BH (60°-80°)	1557.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	146.7	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°	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5
2.5°	5205.3	5184.0	5209.6	5184.0	5299.2	5367.6	5388.9	5418.8	5525.6	5628.0
5°	4987.5	4893.6	4996.1	5030.2	5038.8	5154.1	5273.6	5295.0	5350.5	5517.0
7.5°	4624.6	4731.3	4692.9	4795.4	4902.1	5017.4	5213.8	5158.3	5363.3	5521.3
10°	4547.7	4556.2	4598.9	4637.4	4731.3	4880.8	5154.1	5119.9	5329.1	5666.5
12.5°	4624.6	4624.6	4611.8	4581.9	4688.6	4833.8	5051.6	5068.7	5397.5	5709.2
15°	4893.6	4944.8	4808.2	4829.5	4786.8	4833.8	5026.0	5064.4	5423.1	5743.3
17.5°	5551.2	5534.1	5371.8	5145.5	4957.6	4927.7	5060.1	5102.8	5397.5	5841.6
20°	6191.7	6157.5	5875.7	5640.9	5269.4	5094.3	5115.6	5119.9	5440.2	5905.6
22.5°	6904.8	6994.5	6687.0	6208.8	5747.6	5312.1	5226.7	5295.0	5538.4	5939.8
25°	8023.6	7831.4	7566.7	6939.0	6196.0	5649.4	5410.3	5444.4	5632.3	6025.2
27.5°	8830.7	8753.8	8339.6	7831.4	6823.7	5914.1	5508.5	5572.5	5803.1	6020.9
30°	9607.8	9607.8	9355.9	8595.8	7485.6	6358.2	5717.7	5687.8	5722.0	6012.4
32.5°	10517.4	10393.5	10030.6	9526.7	8318.2	6763.9	5884.3	5892.8	5892.8	6170.4
35°	10995.6	11196.3	10952.9	10133.0	8954.5	7438.6	6285.6	6221.6	6174.6	6345.4
37.5°	11695.9	11815.5	11559.3	11076.7	9744.5	7985.2	6640.1	6588.8	6315.5	6482.1
40°	12118.7	12097.3	12088.8	11866.7	10790.6	8630.0	7161.0	7028.7	6661.4	6964.6
42.5°	12357.8	12315.1	12840.3	12703.7	11777.0	9577.9	7814.4	7741.8	7336.1	7822.9
45°	12626.8	12942.8	13374.1	13758.4	12925.7	10910.2	8920.3	8817.8	8454.9	9074.1
47.5°	12861.7	13250.2	13801.1	14211.0	13963.4	12357.8	10286.8	10312.4	10073.3	10709.5
50°	13254.5	13292.9	14040.2	14868.6	15060.8	13694.3	12122.9	12080.2	11973.5	12865.9
52.5°	13135.0	13250.2	14193.9	15252.9	15568.9	15107.8	14095.7	14223.8	14082.9	15206.0
55°	11187.8	11533.7	14100.0	15658.6	16773.1	16704.8	16632.2	16546.8	16538.3	17836.4
57.5°	10303.9	10585.7	12421.8	16107.0	18062.7	18566.6	19036.3	19130.2	19126.0	20693.1
60°	9723.1	10013.5	11742.9	15863.6	19160.1	21004.8	21905.8	21918.6	21893.0	23746.3
62.5°	8587.3	8869.1	10568.6	14531.3	19463.3	23255.2	25262.2	25428.7	24254.4	26376.7
65°	7220.8	7451.4	8950.2	12494.4	18656.2	24685.7	27785.8	27589.4	26244.3	27879.8
67°	5905.6	6059.3	7519.7	10726.6	16546.8	23998.2	28516.0	28678.3	27162.4	27943.8
67.5°	5529.8	5670.7	7050.0	10124.5	15744.0	23477.2	28541.6	28516.0	27179.4	27956.6
70°	3838.9	3898.6	4803.9	6964.6	11597.7	19834.8	26457.8	26517.6	26039.3	26440.7
72.5°	2545.0	2634.7	3211.1	4389.7	6836.5	14433.1	22115.1	22755.6	22452.4	21679.5
75°	1639.7	1691.0	2100.9	2613.3	3364.9	8220.0	16337.6	16764.6	16068.5	13408.2
77.5°	918.1	973.6	1268.2	1588.5	1639.7	3420.4	9176.5	9706.0	8224.3	5696.4
80°	572.2	644.8	956.5	943.7	781.4	1255.4	3783.3	4052.4	3288.0	1960.0
82.5°	431.3	486.8	738.7	661.9	439.8	559.4	1417.7	1520.2	1204.2	755.8
85°	294.6	371.5	533.8	409.9	230.6	269.0	563.7	606.4	550.8	367.2
87.5°	106.8	158.0	277.6	205.0	102.5	81.1	183.6	205.0	196.4	166.5
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°
5666.5	0°	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5	5666.5
5717.7	2.5°	5798.9	5858.6	5888.5	6063.6	6136.2	6123.4	6140.5	6166.1	6191.7	6225.9
5790.3	5°	5845.8	6029.4	6127.7	6332.6	6469.3	6409.5	6486.3	6465.0	6435.1	6430.8
5922.7	7.5°	5999.5	6234.4	6529.0	6584.6	6644.3	6494.9	6366.8	6191.7	6149.0	5999.5
6033.7	10°	6272.8	6465.0	6823.7	6845.0	6580.3	6196.0	5909.9	5546.9	5542.6	5324.9
6204.5	12.5°	6533.3	6751.1	7041.5	6917.6	6285.6	5760.4	5295.0	4897.9	4731.3	4620.3
6307.0	15°	6695.6	7054.3	7208.0	6674.2	5769.0	5060.1	4458.0	4031.0	3860.2	3779.1
6435.1	17.5°	6845.0	7344.6	7276.3	6247.2	5132.7	4338.5	3621.1	3249.6	3202.6	3142.8
6640.1	20°	7050.0	7451.4	7032.9	5692.1	4411.1	3407.6	2950.7	2771.3	2814.0	2839.6
6661.4	22.5°	7242.2	7506.9	6725.5	5085.7	3484.4	2698.7	2472.4	2510.8	2574.9	2660.3
6712.7	25°	7327.6	7596.6	6311.3	4248.8	2651.8	2271.7	2220.5	2284.5	2391.3	2395.5
6785.3	27.5°	7383.1	7532.5	5811.7	3433.2	2096.6	1985.6	2062.5	2109.4	2122.3	2173.5
6939.0	30°	7481.3	7400.2	5179.7	2455.3	1759.3	1763.6	1861.8	1861.8	1861.8	1900.2
7092.7	32.5°	7652.1	7310.5	4440.9	1793.5	1515.9	1652.5	1626.9	1618.4	1601.3	1554.3
7289.1	35°	7758.8	7067.1	3505.8	1328.0	1362.2	1515.9	1507.4	1375.0	1152.9	1041.9
7788.7	37.5°	7980.9	6943.2	2579.2	1024.8	1272.5	1447.6	1400.6	1080.3	836.9	730.2
8407.9	40°	8459.1	6862.1	1784.9	896.7	1212.7	1413.4	1251.2	922.4	640.5	452.6
9364.4	42.5°	9044.2	6866.4	1212.7	845.5	1217.0	1486.0	1204.2	790.0	452.6	363.0
10641.2	45°	9829.9	6802.3	832.7	845.5	1293.9	1605.6	1234.1	717.4	439.8	461.2
12242.5	47.5°	10675.4	6857.8	619.2	768.6	1306.7	1609.8	1127.3	704.6	422.7	533.8
13984.7	50°	11661.8	6913.4	512.4	708.8	1310.9	1558.6	1037.6	687.5	439.8	563.7
15983.1	52.5°	12678.0	7088.4	435.6	670.4	1362.2	1537.3	1037.6	713.1	439.8	491.1
18528.1	55°	14193.9	7536.8	627.7	836.9	1550.1	1678.2	1276.8	999.2	614.9	632.0
20966.4	57.5°	15867.8	7998.0	700.3	879.6	1592.8	1511.6	1375.0	1101.7	649.1	653.3
22862.3	60°	16969.5	8015.1	696.0	858.3	1490.3	1306.7	1345.1	1161.5	661.9	559.4
24036.6	62.5°	17409.4	7494.1	725.9	858.3	1387.8	1221.3	1379.3	1251.2	683.2	700.3
24369.7	65°	16909.8	6418.0	700.3	768.6	1221.3	1093.2	1387.8	1268.2	747.3	704.6
23771.9	67°	16128.3	5529.8	713.1	730.2	1135.9	1037.6	1460.4	1332.3	866.8	845.5
23460.2	67.5°	15906.3	5295.0	708.8	708.8	1106.0	1020.6	1477.5	1332.3	883.9	875.4
20705.9	70°	14018.9	4291.5	725.9	700.3	977.9	969.3	1571.4	1404.9	1016.3	1024.8
15210.2	72.5°	10671.1	3253.8	721.7	700.3	849.8	926.6	1584.2	1451.8	1106.0	1024.8
8518.9	75°	6063.6	1947.2	636.3	610.6	670.4	807.1	1481.7	1383.5	1076.1	918.1
3403.3	77.5°	2506.6	1003.5	585.0	550.8	555.1	657.6	1234.1	1289.6	1024.8	781.4
1135.9	80°	935.2	602.1	469.7	439.8	427.0	482.5	879.6	1029.1	875.4	640.5
499.6	82.5°	486.8	375.8	320.3	320.3	290.4	307.5	474.0	683.2	661.9	439.8
200.7	85°	247.7	213.5	183.6	179.3	162.3	145.2	239.1	405.7	380.0	243.4
89.7	87.5°	132.4	119.6	76.9	72.6	59.8	38.4	42.7	81.1	132.4	106.8
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



<u>180°</u>
5666.5
6260.0
6469.3
6050.8
5316.3
4594.7
3762.0
3172.7
2809.8
2613.3
2438.3
2220.5
1942.9
1528.7
1093.2
725.9
439.8
354.4
469.7
593.5
653.3
503.9
666.1
632.0
576.5
708.8
691.8
832.7
858.3
948.0
909.5
819.9
738.7
585.0
345.9
200.7
76.9
0.0

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