

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: P477796

Luminaire Tested: **IFLD-L-SA8A-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477796
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

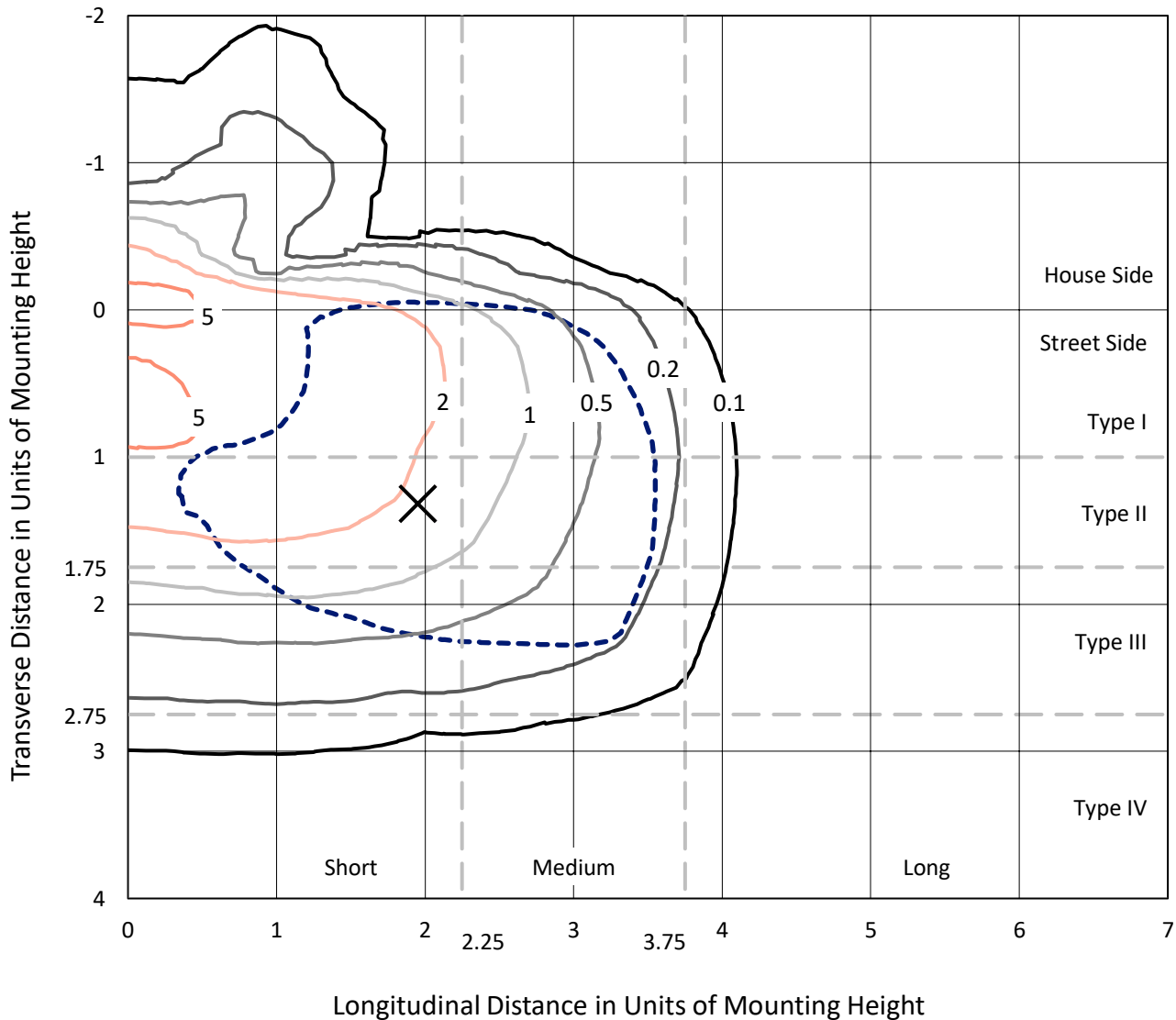
Lumens per Lamp: N/A
Luminaire Lumens: 33649.8 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

REPORT NUMBER: P477796
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

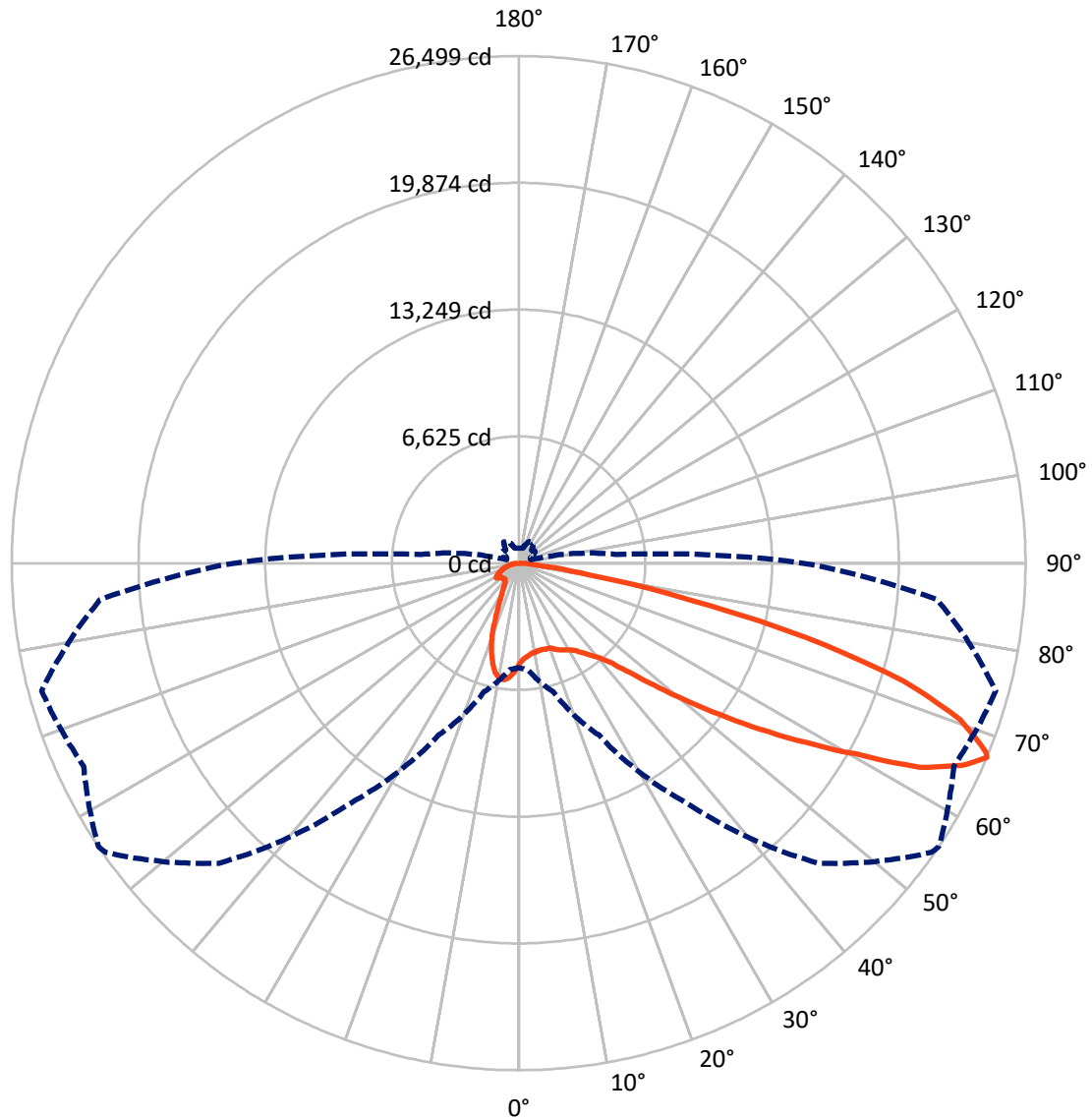
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P477796
CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R

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	5327.1	0.0	5327.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	28322.7	0.0	28322.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	33649.8	0.0	33649.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.4	1.5
10°-20°	1376.1	4.1
20°-30°	2158.1	6.4
30°-40°	3080.7	9.2
40°-50°	4649.7	13.8
50°-60°	7401.5	22.0
60°-70°	9462.2	28.1
70°-80°	4613.5	13.7
80°-90°	403.6	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°	33649.8	100.0
0°-180°	33649.8	100.0

Coefficient of Utilization

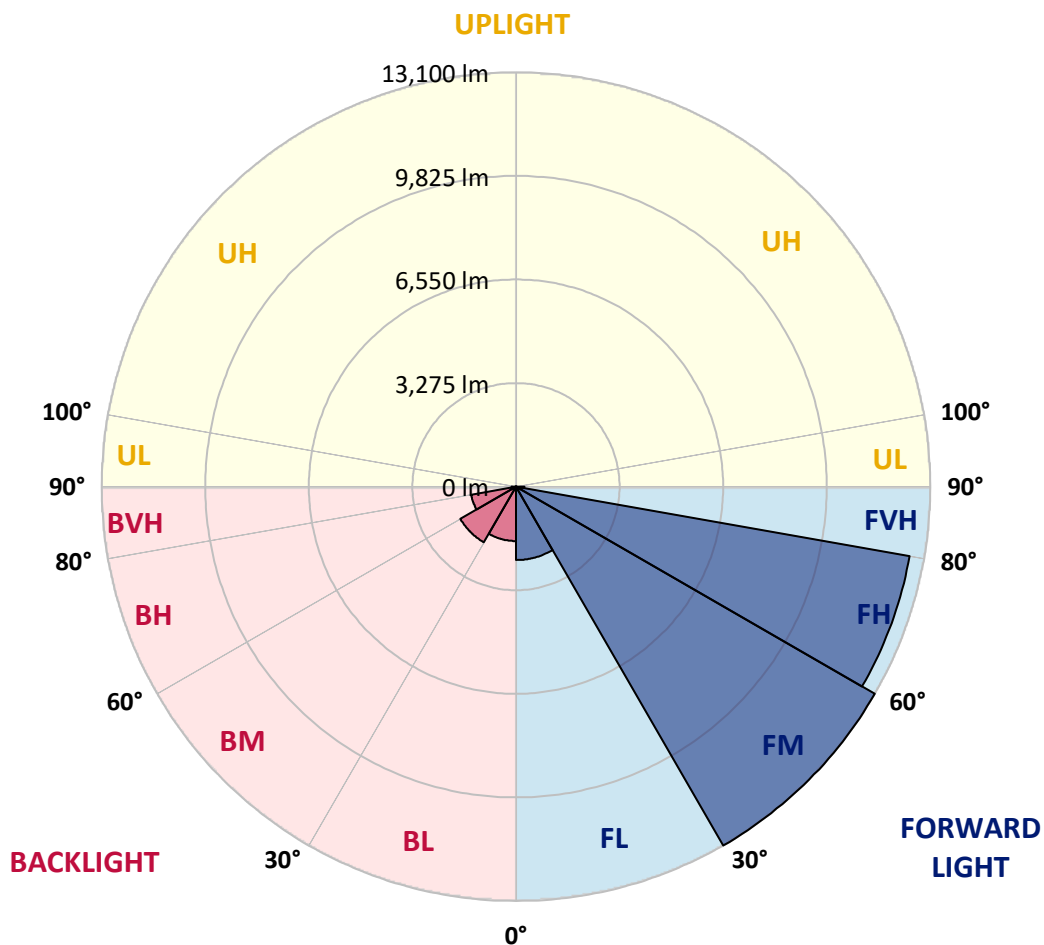


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.8	6.9			
FM (30°-60°)	13099.6	38.9			
FH (60°-80°)	12636.2	37.6			G5
FVH (80°-90°)	268.0	0.8			G3/500
BL (0°-30°)	1719.7	5.1	B3/2500		
BM (30°-60°)	2032.3	6.0	B2/2500		
BH (60°-80°)	1439.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	135.6	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





REPORT NUMBER: P477796
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8
2.5°	4809.7	4790.0	4813.6	4790.0	4896.5	4959.6	4979.4	5007.0	5105.6	5200.3
5°	4608.5	4521.7	4616.4	4647.9	4655.8	4762.3	4872.8	4892.6	4943.8	5097.7
7.5°	4273.1	4371.7	4336.2	4430.9	4529.6	4636.1	4817.6	4766.3	4955.7	5101.7
10°	4202.1	4210.0	4249.4	4284.9	4371.7	4509.8	4762.3	4730.8	4924.1	5235.8
12.5°	4273.1	4273.1	4261.3	4233.6	4332.3	4466.4	4667.7	4683.4	4987.2	5275.3
15°	4521.7	4569.0	4442.8	4462.5	4423.0	4466.4	4644.0	4679.5	5010.9	5306.8
17.5°	5129.3	5113.5	4963.6	4754.5	4580.8	4553.2	4675.5	4715.0	4987.2	5397.6
20°	5721.1	5689.6	5429.2	5212.1	4868.9	4707.1	4726.8	4730.8	5026.7	5456.8
22.5°	6380.0	6462.9	6178.8	5736.9	5310.8	4908.3	4829.4	4892.6	5117.5	5488.3
25°	7413.8	7236.2	6991.6	6411.6	5725.1	5220.0	4999.1	5030.6	5204.3	5567.2
27.5°	8159.5	8088.5	7705.8	7236.2	6305.1	5464.7	5089.8	5149.0	5362.1	5563.3
30°	8877.6	8877.6	8644.8	7942.5	6916.6	5875.0	5283.2	5255.5	5287.1	5555.4
32.5°	9718.0	9603.6	9268.2	8802.6	7686.0	6249.8	5437.0	5444.9	5444.9	5701.4
35°	10159.9	10345.4	10120.5	9362.9	8273.9	6873.2	5807.9	5748.7	5705.3	5863.2
37.5°	10807.0	10917.5	10680.8	10234.9	9003.9	7378.3	6135.4	6088.1	5835.6	5989.4
40°	11197.6	11177.9	11170.0	10964.8	9970.5	7974.1	6616.8	6494.5	6155.1	6435.3
42.5°	11418.6	11379.1	11864.4	11738.2	10882.0	8850.0	7220.5	7153.4	6778.6	7228.4
45°	11667.2	11959.1	12357.6	12712.7	11943.3	10081.0	8242.4	8147.7	7812.3	8384.4
47.5°	11884.2	12243.2	12752.2	13131.0	12902.1	11418.6	9505.0	9528.6	9307.7	9895.6
50°	12247.2	12282.7	12973.2	13738.6	13916.2	12653.6	11201.6	11162.1	11063.5	11888.1
52.5°	12136.7	12243.2	13115.2	14093.7	14385.7	13959.6	13024.4	13142.8	13012.6	14050.3
55°	10337.5	10657.1	13028.4	14468.5	15498.3	15435.2	15368.1	15289.2	15281.3	16480.8
57.5°	9520.7	9781.2	11477.8	14882.8	16689.9	17155.5	17589.5	17676.3	17672.4	19120.4
60°	8984.1	9252.4	10850.4	14657.9	17703.9	19408.4	20241.0	20252.8	20229.1	21941.5
62.5°	7934.6	8195.0	9765.4	13426.9	17984.1	21487.8	23342.2	23496.1	22411.0	24372.0
65°	6672.0	6885.1	8270.0	11544.8	17238.4	22809.5	25674.1	25492.6	24249.7	25760.9
67°	5456.8	5598.8	6948.2	9911.4	15289.2	22174.3	26348.8	26498.7	25098.0	25820.0
67.5°	5109.6	5239.8	6514.2	9355.0	14547.4	21692.9	26372.4	26348.8	25113.8	25831.9
70°	3547.1	3602.3	4438.8	6435.3	10716.3	18327.3	24447.0	24502.2	24060.3	24431.2
72.5°	2351.6	2434.4	2967.1	4056.1	6316.9	13336.1	20434.3	21026.1	20746.0	20031.8
75°	1515.1	1562.5	1941.2	2414.7	3109.1	7595.3	15095.9	15490.4	14847.3	12389.2
77.5°	848.3	899.6	1171.8	1467.8	1515.1	3160.4	8479.1	8968.4	7599.2	5263.4
80°	528.7	595.8	883.8	872.0	722.0	1160.0	3495.8	3744.4	3038.1	1811.0
82.5°	398.5	449.8	682.6	611.6	406.4	516.9	1309.9	1404.6	1112.7	698.4
85°	272.2	343.3	493.2	378.8	213.1	248.6	520.8	560.3	509.0	339.3
87.5°	98.6	146.0	256.5	189.4	94.7	75.0	169.7	189.4	181.5	153.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477796
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5235.8	0°	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8	5235.8
5283.2	2.5°	5358.1	5413.4	5441.0	5602.8	5669.8	5658.0	5673.8	5697.5	5721.1	5752.7
5350.2	5°	5401.5	5571.2	5661.9	5851.3	5977.6	5922.4	5993.4	5973.6	5946.0	5942.1
5472.6	7.5°	5543.6	5760.6	6032.8	6084.1	6139.4	6001.3	5882.9	5721.1	5681.7	5543.6
5575.1	10°	5796.1	5973.6	6305.1	6324.8	6080.2	5725.1	5460.7	5125.3	5121.4	4920.2
5733.0	12.5°	6036.8	6238.0	6506.3	6391.9	5807.9	5322.6	4892.6	4525.6	4371.7	4269.1
5827.7	15°	6186.7	6518.1	6660.2	6167.0	5330.5	4675.5	4119.2	3724.7	3566.8	3491.9
5946.0	17.5°	6324.8	6786.4	6723.3	5772.4	4742.6	4008.7	3345.9	3002.6	2959.2	2904.0
6135.4	20°	6514.2	6885.1	6498.4	5259.5	4075.8	3148.6	2726.4	2560.7	2600.2	2623.8
6155.1	22.5°	6691.7	6936.4	6214.3	4699.2	3219.6	2493.6	2284.5	2320.0	2379.2	2458.1
6202.5	25°	6770.7	7019.2	5831.6	3925.9	2450.2	2099.1	2051.7	2110.9	2209.5	2213.5
6269.6	27.5°	6822.0	6960.0	5370.0	3172.3	1937.3	1834.7	1905.7	1949.1	1961.0	2008.3
6411.6	30°	6912.7	6837.7	4786.0	2268.7	1625.6	1629.5	1720.3	1720.3	1720.3	1755.8
6553.7	32.5°	7070.5	6754.9	4103.4	1657.2	1400.7	1526.9	1503.3	1495.4	1479.6	1436.2
6735.1	35°	7169.2	6530.0	3239.3	1227.1	1258.6	1400.7	1392.8	1270.5	1065.3	962.7
7196.8	37.5°	7374.3	6415.6	2383.1	946.9	1175.8	1337.6	1294.2	998.2	773.3	674.7
7768.9	40°	7816.2	6340.6	1649.3	828.6	1120.6	1306.0	1156.1	852.3	591.8	418.2
8652.7	42.5°	8356.8	6344.5	1120.6	781.2	1124.5	1373.1	1112.7	729.9	418.2	335.4
9832.4	45°	9082.8	6285.4	769.4	781.2	1195.5	1483.5	1140.3	662.9	406.4	426.1
11312.1	47.5°	9864.0	6336.6	572.1	710.2	1207.4	1487.5	1041.6	651.0	390.6	493.2
12921.9	50°	10775.4	6387.9	473.5	655.0	1211.3	1440.1	958.8	635.2	406.4	520.8
14768.4	52.5°	11714.5	6549.7	402.5	619.5	1258.6	1420.4	958.8	658.9	406.4	453.7
17120.0	55°	13115.2	6964.0	580.0	773.3	1432.3	1550.6	1179.7	923.3	568.2	583.9
19372.9	57.5°	14661.9	7390.1	647.1	812.8	1471.7	1396.7	1270.5	1018.0	599.7	603.7
21124.8	60°	15679.8	7405.9	643.1	793.1	1377.0	1207.4	1242.9	1073.2	611.6	516.9
22209.8	62.5°	16086.2	6924.5	670.8	793.1	1282.3	1128.4	1274.4	1156.1	631.3	647.1
22517.6	65°	15624.6	5930.2	647.1	710.2	1128.4	1010.1	1282.3	1171.8	690.5	651.0
21965.2	67°	14902.6	5109.6	658.9	674.7	1049.5	958.8	1349.4	1231.0	801.0	781.2
21677.2	67.5°	14697.4	4892.6	655.0	655.0	1021.9	943.0	1365.2	1231.0	816.7	808.8
19132.2	70°	12953.4	3965.3	670.8	647.1	903.5	895.7	1452.0	1298.1	939.1	946.9
14054.2	72.5°	9860.1	3006.6	666.8	647.1	785.2	856.2	1463.8	1341.5	1021.9	946.9
7871.5	75°	5602.8	1799.2	587.9	564.2	619.5	745.7	1369.1	1278.4	994.3	848.3
3144.6	77.5°	2316.1	927.2	540.5	509.0	512.9	607.6	1140.3	1191.6	946.9	722.0
1049.5	80°	864.1	556.3	434.0	406.4	394.6	445.9	812.8	950.9	808.8	591.8
461.6	82.5°	449.8	347.2	295.9	295.9	268.3	284.1	438.0	631.3	611.6	406.4
185.4	85°	228.8	197.3	169.7	165.7	149.9	134.2	221.0	374.8	351.2	224.9
82.9	87.5°	122.3	110.5	71.0	67.1	55.2	35.5	39.5	75.0	122.3	98.6
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>
5235.8
5784.3
5977.6
5590.9
4912.3
4245.5
3476.1
2931.6
2596.2
2414.7
2252.9
2051.7
1795.3
1412.5
1010.1
670.8
406.4
327.5
434.0
548.4
603.7
465.6
615.5
583.9
532.7
655.0
639.2
769.4
793.1
875.9
840.4
757.6
682.6
540.5
319.6
185.4
71.0
0.0

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