

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: P477751

Luminaire Tested: **IFLD-M-SA4E-735-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477751
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

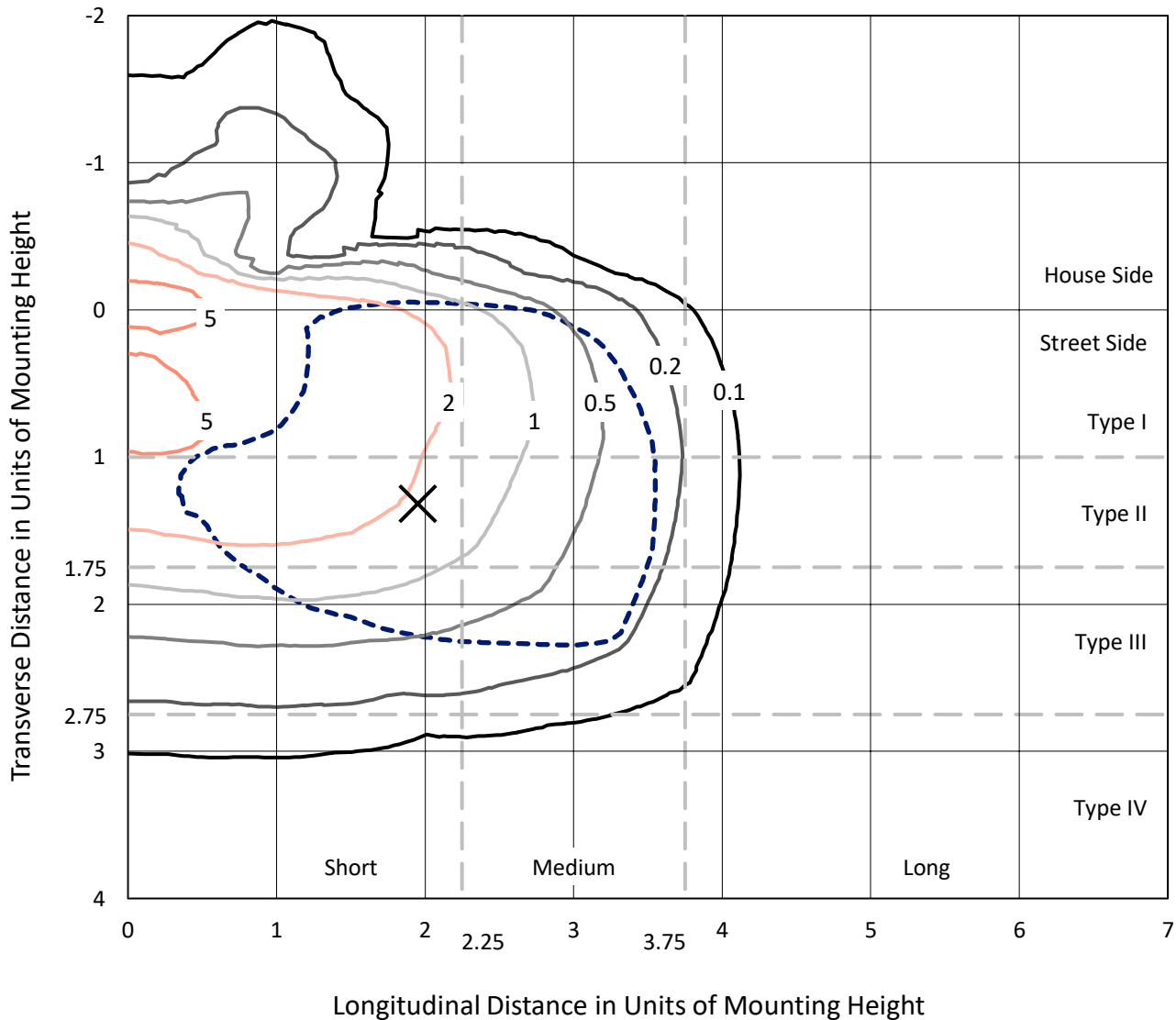
Lumens per Lamp: N/A
Luminaire Lumens: 35076.4 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

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Iso-Footcandle Lines of Horizontal Illumination

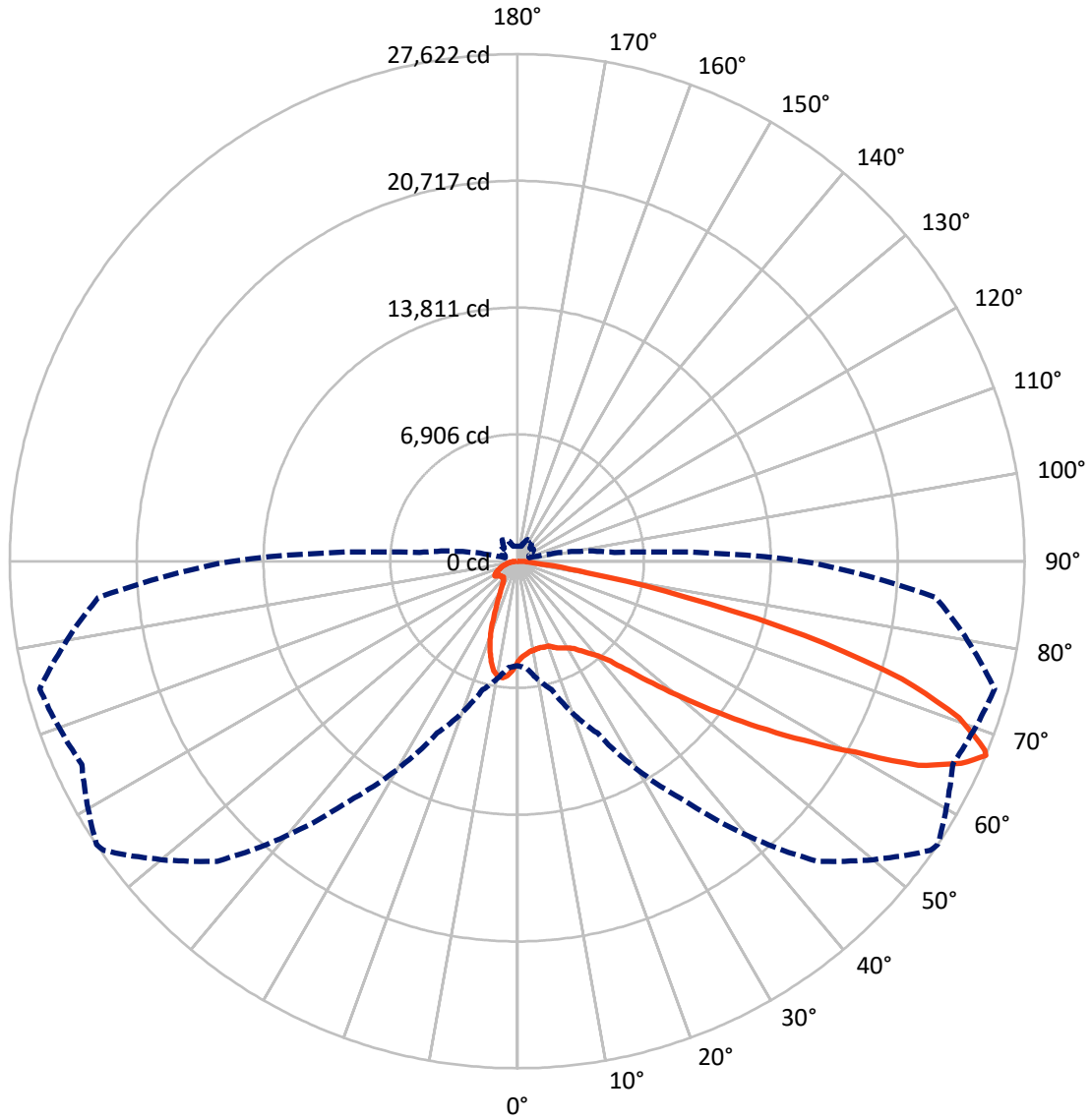
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	5553.0	0.0	5553.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	29523.5	0.0	29523.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	35076.4	0.0	35076.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.8	1.5
10°-20°	1434.4	4.1
20°-30°	2249.6	6.4
30°-40°	3211.3	9.2
40°-50°	4846.8	13.8
50°-60°	7715.3	22.0
60°-70°	9863.4	28.1
70°-80°	4809.1	13.7
80°-90°	420.7	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°	35076.4	100.0
0°-180°	35076.4	100.0

Coefficient of Utilization

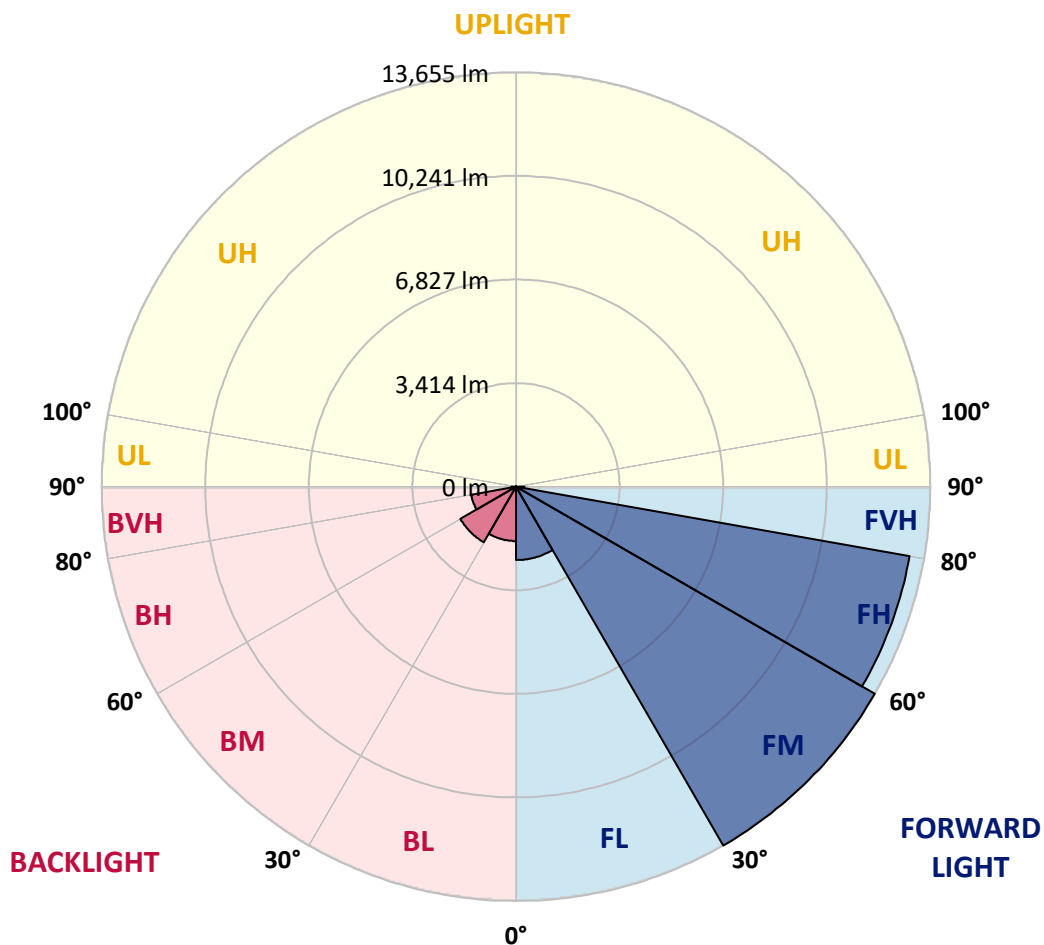


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.2	6.9			
FM (30°-60°)	13654.9	38.9			
FH (60°-80°)	13172.0	37.6			G5
FVH (80°-90°)	279.4	0.8			G3/500
BL (0°-30°)	1792.6	5.1	B3/2500		
BM (30°-60°)	2118.5	6.0	B2/2500		
BH (60°-80°)	1500.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	141.3	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°	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8
2.5°	5013.6	4993.0	5017.7	4993.0	5104.1	5169.9	5190.5	5219.3	5322.1	5420.8
5°	4803.9	4713.4	4812.1	4845.0	4853.2	4964.3	5079.4	5100.0	5153.4	5313.8
7.5°	4454.3	4557.1	4520.1	4618.8	4721.6	4832.6	5021.8	4968.4	5165.8	5318.0
10°	4380.2	4388.4	4429.6	4466.6	4557.1	4701.0	4964.3	4931.4	5132.9	5457.8
12.5°	4454.3	4454.3	4441.9	4413.1	4515.9	4655.8	4865.5	4882.0	5198.7	5498.9
15°	4713.4	4762.7	4631.1	4651.7	4610.5	4655.8	4840.9	4877.9	5223.4	5531.8
17.5°	5346.8	5330.3	5174.0	4956.0	4775.1	4746.3	4873.8	4914.9	5198.7	5626.4
20°	5963.7	5930.8	5659.3	5433.1	5075.3	4906.7	4927.2	4931.4	5239.8	5688.1
22.5°	6650.5	6736.9	6440.8	5980.1	5535.9	5116.4	5034.2	5100.0	5334.4	5721.0
25°	7728.1	7543.0	7288.0	6683.4	5967.8	5441.3	5211.0	5243.9	5424.9	5803.3
27.5°	8505.4	8431.4	8032.5	7543.0	6572.4	5696.3	5305.6	5367.3	5589.4	5799.2
30°	9254.0	9254.0	9011.3	8279.2	7209.9	6124.1	5507.2	5478.4	5511.3	5790.9
32.5°	10130.0	10010.8	9661.2	9175.8	8011.9	6514.8	5667.6	5675.8	5675.8	5943.1
35°	10590.7	10784.0	10549.6	9759.9	8624.7	7164.6	6054.2	5992.5	5947.2	6111.7
37.5°	11265.2	11380.4	11133.6	10668.8	9385.6	7691.1	6395.5	6346.2	6083.0	6243.4
40°	11672.4	11651.8	11643.6	11429.7	10393.3	8312.1	6897.3	6769.8	6416.1	6708.1
42.5°	11902.7	11861.6	12367.4	12235.8	11343.3	9225.2	7526.6	7456.7	7065.9	7534.8
45°	12161.8	12466.2	12881.6	13251.7	12449.7	10508.4	8591.8	8493.1	8143.5	8739.9
47.5°	12388.0	12762.3	13292.8	13687.7	13449.1	11902.7	9907.9	9932.6	9702.3	10315.1
50°	12766.4	12803.4	13523.2	14321.1	14506.1	13190.0	11676.5	11635.4	11532.5	12392.1
52.5°	12651.2	12762.3	13671.2	14691.2	14995.6	14551.4	13576.6	13700.0	13564.3	14646.0
55°	10775.8	11108.9	13580.8	15082.0	16155.4	16089.6	16019.7	15937.4	15929.2	17179.5
57.5°	9924.4	10195.8	11964.4	15513.8	17397.5	17882.8	18335.2	18425.7	18421.6	19931.0
60°	9365.0	9644.7	11310.4	15279.4	18454.5	20231.3	21099.1	21111.4	21086.8	22871.8
62.5°	8271.0	8542.5	10179.4	13996.2	18746.5	22398.8	24331.8	24492.2	23361.2	25405.3
65°	6954.9	7177.0	8620.6	12034.3	17969.2	23776.6	26762.6	26573.4	25277.8	26853.0
67°	5688.1	5836.2	7242.8	10331.6	15937.4	23114.4	27465.9	27622.1	26162.1	26914.7
67.5°	5326.2	5461.9	6790.4	9751.7	15164.2	22612.6	27490.5	27465.9	26178.5	26927.1
70°	3697.5	3755.1	4627.0	6708.1	11170.6	19104.4	25483.4	25541.0	25080.4	25467.0
72.5°	2451.3	2537.7	3092.9	4228.0	6584.7	13901.6	21300.6	21917.6	21625.6	20881.1
75°	1579.3	1628.7	2023.5	2517.1	3241.0	7917.3	15735.9	16147.2	15476.8	12914.5
77.5°	884.3	937.7	1221.5	1530.0	1579.3	3294.4	8838.6	9348.6	7921.4	5486.6
80°	551.1	621.0	921.3	908.9	752.7	1209.2	3644.0	3903.1	3166.9	1887.8
82.5°	415.4	468.9	711.5	637.5	423.6	538.8	1365.5	1464.2	1159.8	728.0
85°	283.8	357.8	514.1	394.8	222.1	259.1	542.9	584.0	530.6	353.7
87.5°	102.8	152.2	267.3	197.4	98.7	78.1	176.9	197.4	189.2	160.4
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°
5457.8	0°	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8	5457.8
5507.2	2.5°	5585.3	5642.9	5671.7	5840.3	5910.2	5897.9	5914.3	5939.0	5963.7	5996.6
5577.1	5°	5630.5	5807.4	5902.0	6099.4	6231.0	6173.4	6247.5	6226.9	6198.1	6194.0
5704.6	7.5°	5778.6	6004.8	6288.6	6342.1	6399.7	6255.7	6132.3	5963.7	5922.6	5778.6
5811.5	10°	6041.8	6226.9	6572.4	6593.0	6338.0	5967.8	5692.2	5342.6	5338.5	5128.8
5976.0	12.5°	6292.7	6502.5	6782.1	6662.9	6054.2	5548.3	5100.0	4717.5	4557.1	4450.1
6074.7	15°	6449.0	6794.5	6942.6	6428.4	5556.5	4873.8	4293.9	3882.6	3718.0	3639.9
6198.1	17.5°	6593.0	7074.2	7008.4	6017.2	4943.7	4178.7	3487.7	3129.9	3084.7	3027.1
6395.5	20°	6790.4	7177.0	6773.9	5482.5	4248.6	3282.1	2842.0	2669.3	2710.4	2735.1
6416.1	22.5°	6975.5	7230.5	6477.8	4898.4	3356.1	2599.3	2381.4	2418.4	2480.1	2562.3
6465.5	25°	7057.7	7316.8	6078.8	4092.3	2554.1	2188.1	2138.7	2200.4	2303.2	2307.3
6535.4	27.5°	7111.2	7255.1	5597.6	3306.8	2019.4	1912.5	1986.5	2031.8	2044.1	2093.5
6683.4	30°	7205.8	7127.6	4988.9	2364.9	1694.5	1698.6	1793.2	1793.2	1793.2	1830.2
6831.5	32.5°	7370.3	7041.3	4277.4	1727.4	1460.1	1591.7	1567.0	1558.8	1542.3	1497.1
7020.7	35°	7473.1	6806.8	3376.7	1279.1	1312.0	1460.1	1451.8	1324.3	1110.5	1003.5
7501.9	37.5°	7687.0	6687.6	2484.2	987.1	1225.6	1394.3	1349.0	1040.6	806.1	703.3
8098.3	40°	8147.6	6609.4	1719.2	863.7	1168.1	1361.4	1205.1	888.4	616.9	436.0
9019.6	42.5°	8711.1	6613.5	1168.1	814.4	1172.2	1431.3	1159.8	760.9	436.0	349.6
10249.3	45°	9467.9	6551.8	802.0	814.4	1246.2	1546.4	1188.6	691.0	423.6	444.2
11791.6	47.5°	10282.2	6605.3	596.4	740.3	1258.5	1550.6	1085.8	678.6	407.2	514.1
13469.7	50°	11232.3	6658.8	493.5	682.7	1262.7	1501.2	999.4	662.2	423.6	542.9
15394.5	52.5°	12211.2	6827.4	419.5	645.7	1312.0	1480.6	999.4	686.9	423.6	473.0
17845.8	55°	13671.2	7259.2	604.6	806.1	1493.0	1616.4	1229.8	962.4	592.3	608.7
20194.3	57.5°	15283.5	7703.4	674.5	847.3	1534.1	1456.0	1324.3	1061.1	625.2	629.3
22020.4	60°	16344.6	7719.9	670.4	826.7	1435.4	1258.5	1295.6	1118.7	637.5	538.8
23151.4	62.5°	16768.2	7218.1	699.2	826.7	1336.7	1176.3	1328.5	1205.1	658.1	674.5
23472.2	65°	16287.0	6181.7	674.5	740.3	1176.3	1052.9	1336.7	1221.5	719.8	678.6
22896.4	67°	15534.4	5326.2	686.9	703.3	1094.0	999.4	1406.6	1283.2	834.9	814.4
22596.2	67.5°	15320.5	5100.0	682.7	682.7	1065.2	983.0	1423.1	1283.2	851.4	843.1
19943.4	70°	13502.6	4133.5	699.2	674.5	941.9	933.6	1513.5	1353.1	978.9	987.1
14650.1	72.5°	10278.1	3134.0	695.1	674.5	818.5	892.5	1525.9	1398.4	1065.2	987.1
8205.2	75°	5840.3	1875.5	612.8	588.1	645.7	777.3	1427.2	1332.6	1036.4	884.3
3278.0	77.5°	2414.3	966.5	563.5	530.6	534.7	633.4	1188.6	1242.1	987.1	752.7
1094.0	80°	900.7	579.9	452.4	423.6	411.3	464.8	847.3	991.2	843.1	616.9
481.2	82.5°	468.9	361.9	308.5	308.5	279.7	296.1	456.5	658.1	637.5	423.6
193.3	85°	238.5	205.6	176.9	172.7	156.3	139.8	230.3	390.7	366.0	234.4
86.4	87.5°	127.5	115.2	74.0	69.9	57.6	37.0	41.1	78.1	127.5	102.8
0.0	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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<u>180°</u>
5457.8
6029.5
6231.0
5828.0
5120.5
4425.5
3623.5
3055.9
2706.3
2517.1
2348.5
2138.7
1871.4
1472.4
1052.9
699.2
423.6
341.4
452.4
571.7
629.3
485.3
641.6
608.7
555.2
682.7
666.3
802.0
826.7
913.1
876.0
789.7
711.5
563.5
333.1
193.3
74.0
0.0

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