

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: P477559

Luminaire Tested: **IFLD-L-SA7C-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

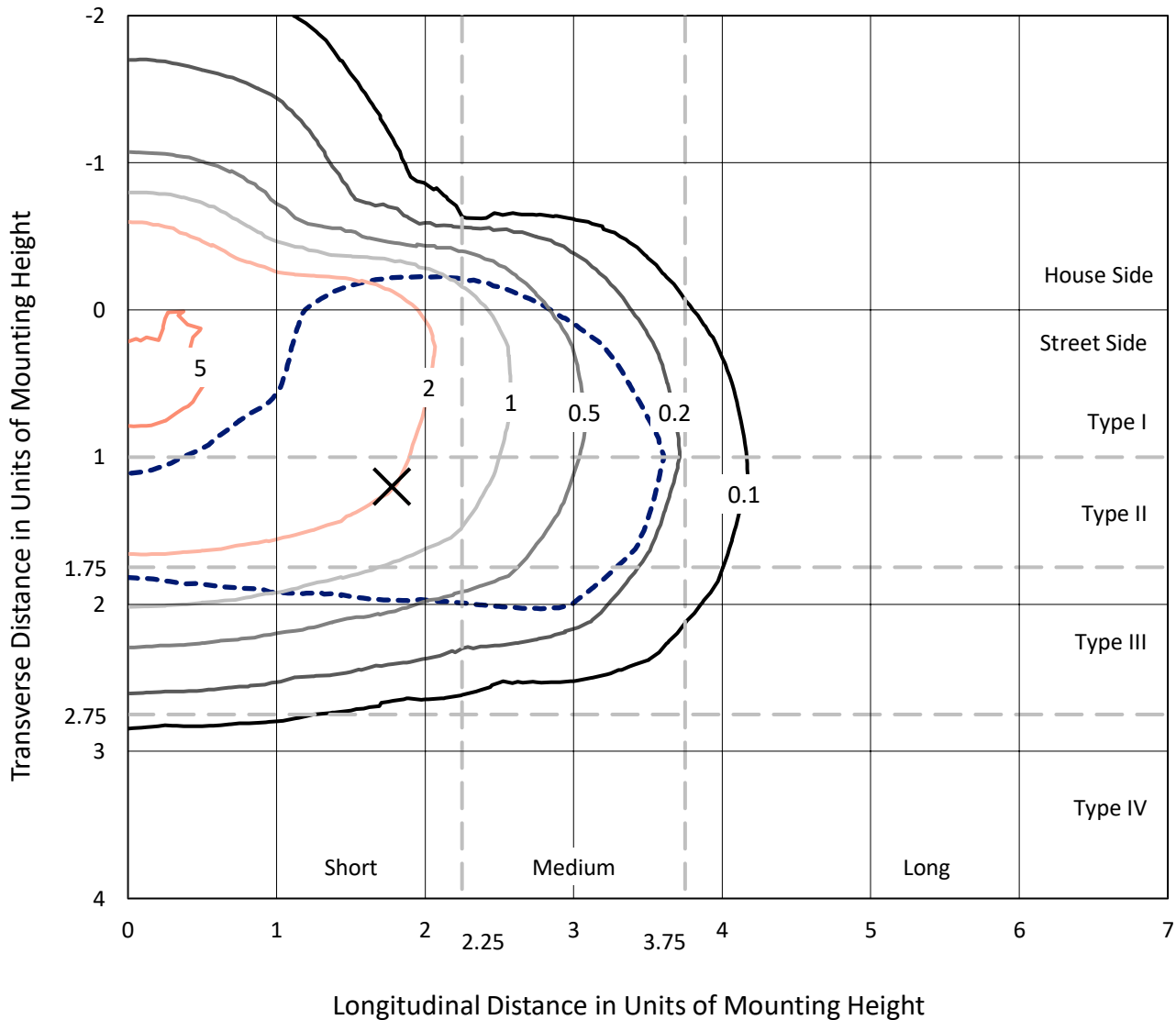
Lumens per Lamp: N/A
Luminaire Lumens: 35877.7 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

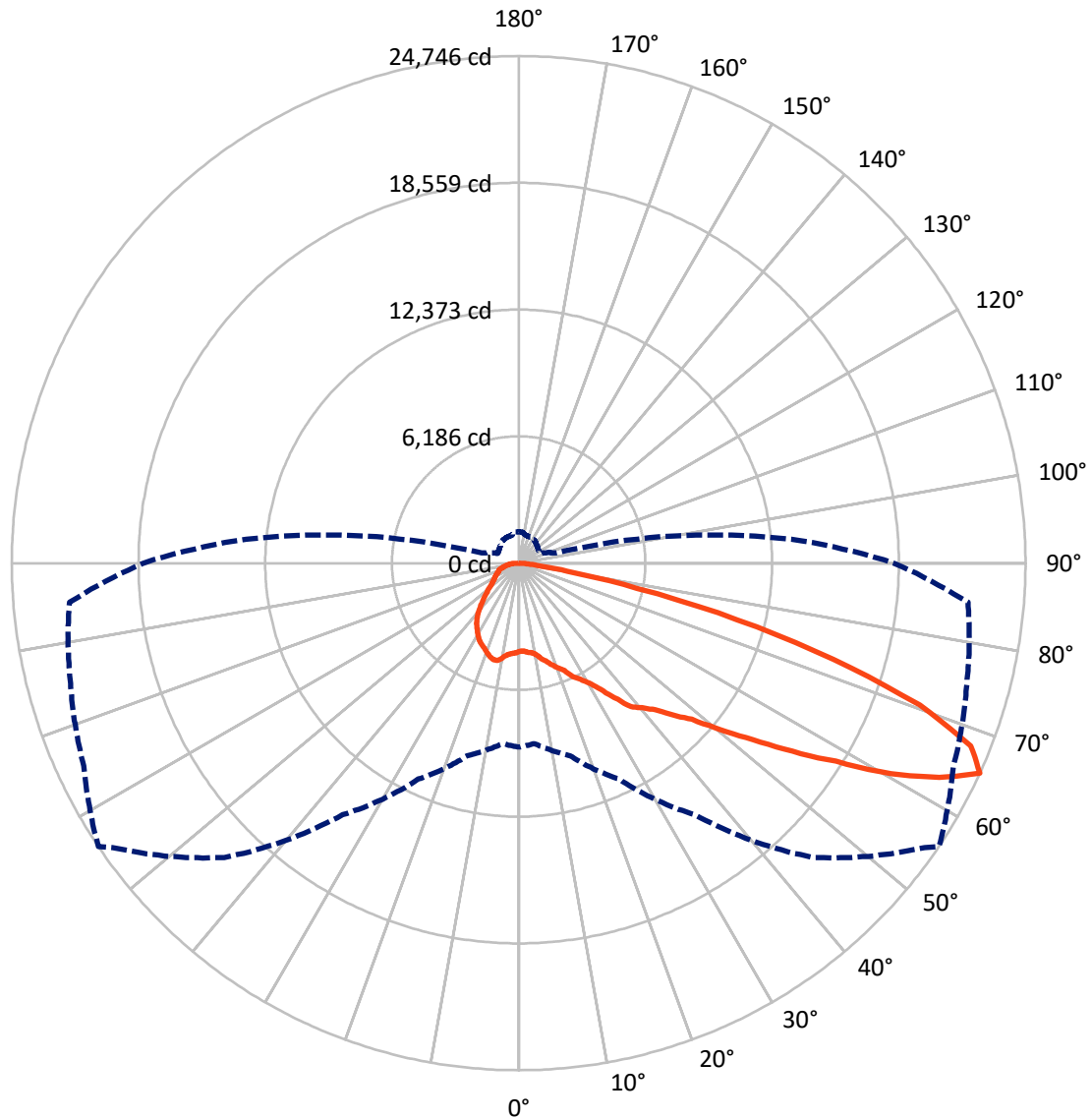
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	8046.2	0.0	8046.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27831.5	0.0	27831.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	35877.7	0.0	35877.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	1.2
10°-20°	1385.7	3.9
20°-30°	2467.3	6.9
30°-40°	3694.7	10.3
40°-50°	5474.2	15.3
50°-60°	8435.0	23.5
60°-70°	9549.4	26.6
70°-80°	3963.1	11.0
80°-90°	481.5	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°	35877.7	100.0
0°-180°	35877.7	100.0

Coefficient of Utilization



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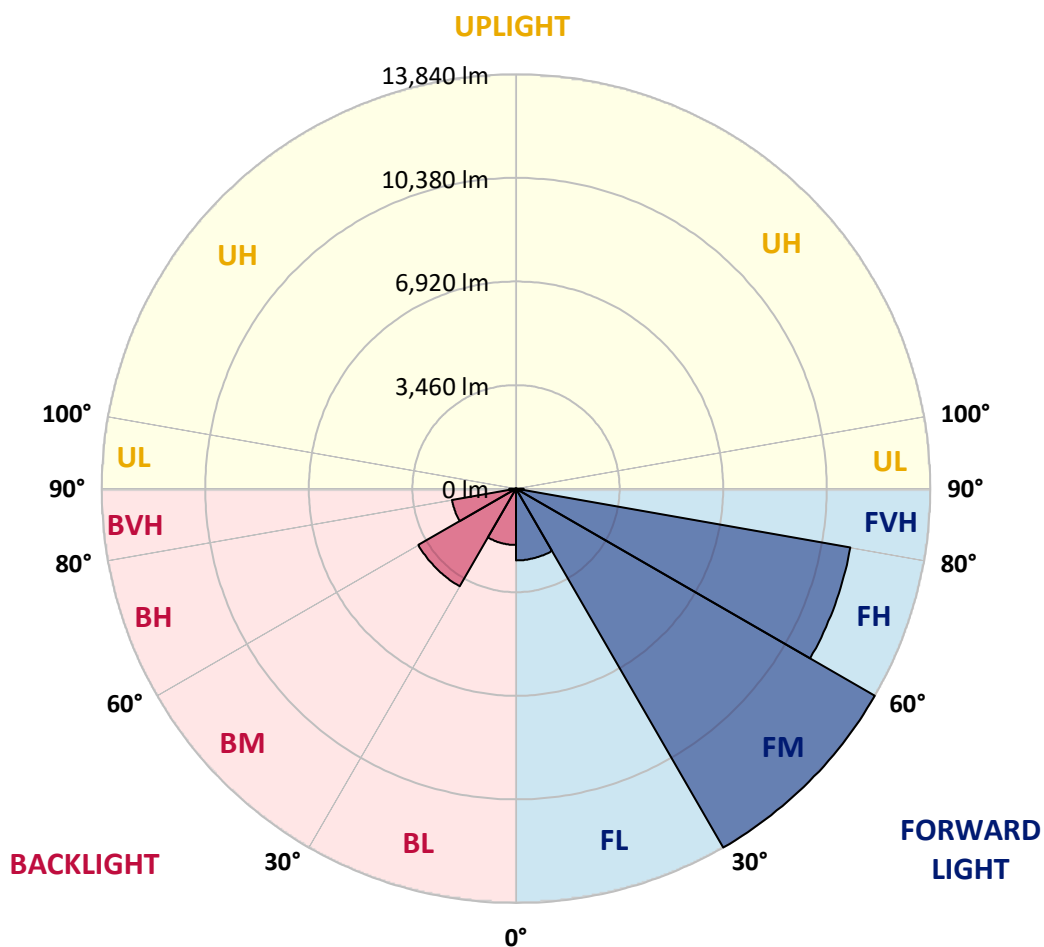
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.7	6.7			
FM (30°-60°)	13840.0	38.6			
FH (60°-80°)	11339.8	31.6			G4/12000
FVH (80°-90°)	254.0	0.7			G3/500
BL (0°-30°)	1882.1	5.2	B3/2500		
BM (30°-60°)	3763.9	10.5	B3/5000		
BH (60°-80°)	2172.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	227.5	0.6			G3/500
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°	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3
2.5°	4193.7	4216.2	4201.2	4246.3	4283.8	4283.8	4313.9	4291.3	4321.4	4362.7
5°	4332.6	4242.5	4291.3	4313.9	4302.6	4321.4	4291.3	4366.4	4317.6	4396.5
7.5°	4366.4	4400.2	4441.5	4404.0	4437.8	4419.0	4422.7	4411.5	4385.2	4449.0
10°	4614.2	4565.4	4659.3	4602.9	4595.4	4587.9	4572.9	4516.6	4580.4	4584.2
12.5°	4899.5	4854.5	4850.7	4805.7	4865.8	4756.9	4779.4	4749.4	4760.6	4775.7
15°	5106.0	5087.3	5173.6	5121.1	5042.2	4993.4	5046.0	4963.4	5004.7	4997.2
17.5°	5515.3	5511.5	5447.7	5361.3	5316.3	5245.0	5233.7	5199.9	5229.9	5214.9
20°	5800.6	5841.9	5853.2	5751.8	5579.1	5500.3	5481.5	5455.2	5489.0	5477.7
22.5°	6236.1	6172.3	6221.1	6044.7	5980.8	5793.1	5725.5	5688.0	5849.4	5808.1
25°	6514.0	6581.5	6532.7	6472.7	6330.0	6097.2	6048.4	6131.0	6194.8	6149.8
27.5°	7141.0	7073.4	7028.3	6848.1	6754.2	6510.2	6453.9	6423.9	6438.9	6465.2
30°	7617.8	7655.3	7553.9	7426.3	7189.8	6942.0	6810.6	6784.3	6731.7	6686.7
32.5°	8297.3	8241.0	8180.9	8098.3	7895.6	7569.0	7441.3	7343.7	7186.0	6975.8
35°	8624.0	8785.4	8740.3	8518.8	8364.9	8241.0	8203.5	8053.3	7921.9	7591.5
37.5°	9168.3	9235.9	9172.1	9100.8	9029.4	8898.0	8853.0	8894.3	8635.2	8090.8
40°	9521.3	9663.9	9795.3	9596.4	9581.3	9607.6	9329.8	9281.0	8747.9	8462.5
42.5°	10242.1	10302.2	10328.5	10321.0	10407.3	10407.3	9877.9	9772.8	9393.6	9160.8
45°	11195.7	11244.6	11338.4	11406.0	11308.4	11357.2	10602.5	10561.2	10223.3	10178.3
47.5°	12021.7	12138.1	12348.4	12547.3	12675.0	12509.8	11683.8	11391.0	11304.6	11574.9
50°	12742.6	12603.7	13095.5	13298.2	13857.6	14131.7	12877.7	12761.4	12622.4	13140.5
52.5°	12813.9	13001.6	13696.2	14101.7	15254.3	15761.2	14342.0	14293.2	14124.2	14721.2
55°	13324.5	13302.0	14000.3	14878.9	16249.2	17101.5	16249.2	16219.2	15851.3	16418.2
57.5°	13238.2	13467.2	14019.1	15246.8	17146.5	18539.4	18460.6	18254.1	17739.7	18201.5
60°	12945.3	13005.4	13677.4	15235.5	17668.4	20014.9	20848.4	20889.7	19838.5	20206.4
62.5°	11285.9	11424.8	12277.0	14037.9	17296.7	21032.4	23179.9	23033.5	22192.5	21772.0
65°	8976.9	8838.0	9724.0	11627.5	14984.0	20311.5	24201.1	24745.5	23424.0	22654.3
67.5°	5504.0	5470.2	6322.5	8000.7	11210.8	17285.5	23386.4	23810.7	23082.3	22466.6
70°	2834.6	2748.3	3281.4	4464.0	7047.1	12682.5	20352.8	20769.6	21464.1	20150.1
72.5°	1321.6	1302.8	1588.1	2196.3	3589.2	7456.3	15761.2	16061.5	17525.7	16988.9
75°	777.2	788.4	949.9	1148.9	1749.6	3514.2	10459.9	11041.8	12629.9	12243.2
77.5°	581.9	581.9	675.8	799.7	1021.2	1359.1	5162.4	5932.0	7385.0	6641.6
80°	428.0	435.5	518.1	600.7	709.6	702.1	2049.9	2402.8	3386.5	2894.7
82.5°	334.1	345.4	401.7	446.8	499.3	424.3	841.0	904.8	1392.9	1107.6
85°	232.8	240.3	315.4	304.1	304.1	236.5	349.2	367.9	551.9	525.6
87.5°	56.3	63.8	153.9	168.9	127.7	71.3	108.9	123.9	199.0	229.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4306.3	0°	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3	4306.3
4381.4	2.5°	4325.1	4340.1	4404.0	4370.2	4388.9	4310.1	4373.9	4321.4	4366.4	4343.9
4415.2	5°	4445.3	4411.5	4449.0	4422.7	4422.7	4452.8	4497.8	4464.0	4531.6	4501.6
4441.5	7.5°	4494.1	4497.8	4520.3	4524.1	4505.3	4599.2	4602.9	4591.7	4655.5	4640.5
4621.7	10°	4614.2	4618.0	4659.3	4681.8	4663.0	4696.8	4659.3	4629.2	4625.5	4610.5
4764.4	12.5°	4805.7	4843.2	4835.7	4854.5	4858.2	4715.6	4629.2	4482.8	4464.0	4482.8
4974.6	15°	4982.1	4967.1	4974.6	5012.2	4854.5	4625.5	4471.5	4347.6	4355.2	4358.9
5248.7	17.5°	5192.4	5203.7	5214.9	5042.2	4753.1	4482.8	4347.6	4347.6	4310.1	4325.1
5440.2	20°	5432.7	5387.6	5290.0	5046.0	4576.7	4317.6	4276.3	4276.3	4231.3	4201.2
5646.7	22.5°	5620.4	5530.3	5383.9	4929.6	4419.0	4253.8	4152.4	4081.1	4028.5	3968.4
5875.7	25°	5740.5	5691.7	5406.4	4809.4	4302.6	4084.8	3934.7	3825.8	3758.2	3679.4
6055.9	27.5°	5924.5	5830.6	5470.2	4670.5	4174.9	3915.9	3683.1	3514.2	3386.5	3303.9
6330.0	30°	6172.3	6037.1	5425.2	4471.5	3979.7	3623.0	3349.0	3131.2	2984.8	2917.2
6589.0	32.5°	6375.0	6198.6	5387.6	4291.3	3762.0	3326.4	2962.3	2740.7	2658.1	2571.8
7024.6	35°	6761.8	6412.6	5361.3	4190.0	3566.7	3029.8	2646.9	2455.4	2350.3	2222.6
7283.6	37.5°	7058.4	6784.3	5297.5	3979.7	3315.2	2740.7	2406.6	2233.9	2076.2	1941.0
7884.3	40°	7523.9	7302.4	5301.3	3683.1	3018.6	2493.0	2218.9	2038.7	1839.7	1723.3
8774.1	42.5°	8398.7	7813.0	5323.8	3446.6	2684.4	2290.2	2049.9	1835.9	1636.9	1539.3
9787.8	45°	9472.5	8515.1	5184.9	3232.6	2342.8	2098.7	1847.2	1633.2	1505.5	1434.2
11165.7	47.5°	10707.7	9202.1	4997.2	2830.8	2057.4	1896.0	1659.5	1535.6	1441.7	1400.4
12941.6	50°	12089.3	10185.8	4944.6	2462.9	1835.9	1723.3	1569.4	1475.5	1411.7	1362.9
14942.7	52.5°	13868.9	11330.9	4839.5	2083.7	1644.4	1584.4	1535.6	1471.7	1415.4	1374.1
16808.6	55°	15569.7	12599.9	4726.8	1772.1	1509.3	1516.8	1543.1	1486.8	1438.0	1374.1
18899.9	57.5°	17484.4	13895.2	4310.1	1543.1	1407.9	1483.0	1535.6	1471.7	1422.9	1374.1
21039.9	60°	18667.1	14623.6	3495.4	1344.1	1317.8	1419.2	1490.5	1422.9	1370.4	1389.1
22023.6	62.5°	19147.7	14240.6	2635.6	1220.2	1254.0	1332.8	1419.2	1392.9	1355.4	1426.7
22012.3	65°	18329.2	13358.3	1884.7	1115.1	1167.6	1246.5	1355.4	1385.4	1396.7	1535.6
20217.7	67.5°	16309.3	11631.3	1385.4	1028.7	1077.5	1193.9	1400.4	1449.2	1441.7	1614.4
16966.3	70°	13050.4	9097.0	1081.3	957.4	1043.7	1235.2	1464.2	1464.2	1411.7	1614.4
12941.6	72.5°	9495.0	6412.6	931.1	874.8	957.4	1133.8	1456.7	1453.0	1385.4	1475.5
8241.0	75°	5748.1	3731.9	822.2	792.2	822.2	972.4	1392.9	1370.4	1276.5	1269.0
3964.7	77.5°	2864.6	1877.2	672.0	702.1	717.1	814.7	1223.9	1257.7	1130.1	1100.1
1565.6	80°	1208.9	818.5	559.4	604.5	604.5	687.1	1017.5	1040.0	938.6	882.3
619.5	82.5°	551.9	469.3	476.8	525.6	491.8	533.1	807.2	833.5	762.2	668.3
262.8	85°	232.8	266.6	364.2	413.0	364.2	345.4	555.7	585.7	495.6	413.0
112.6	87.5°	105.1	146.4	229.0	300.4	184.0	161.4	296.6	307.9	247.8	184.0
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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180°
4306.3
4302.6
4460.3
4618.0
4610.5
4490.3
4411.5
4328.9
4156.2
3934.7
3694.4
3341.5
2954.7
2568.0
2211.4
1944.8
1734.6
1546.8
1449.2
1392.9
1370.4
1370.4
1370.4
1370.4
1374.1
1407.9
1535.6
1625.7
1580.6
1422.9
1254.0
1081.3
863.5
653.3
416.7
172.7
0.0

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