

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: P477290

Luminaire Tested: **IFLD-L-SA8B-727-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477290  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

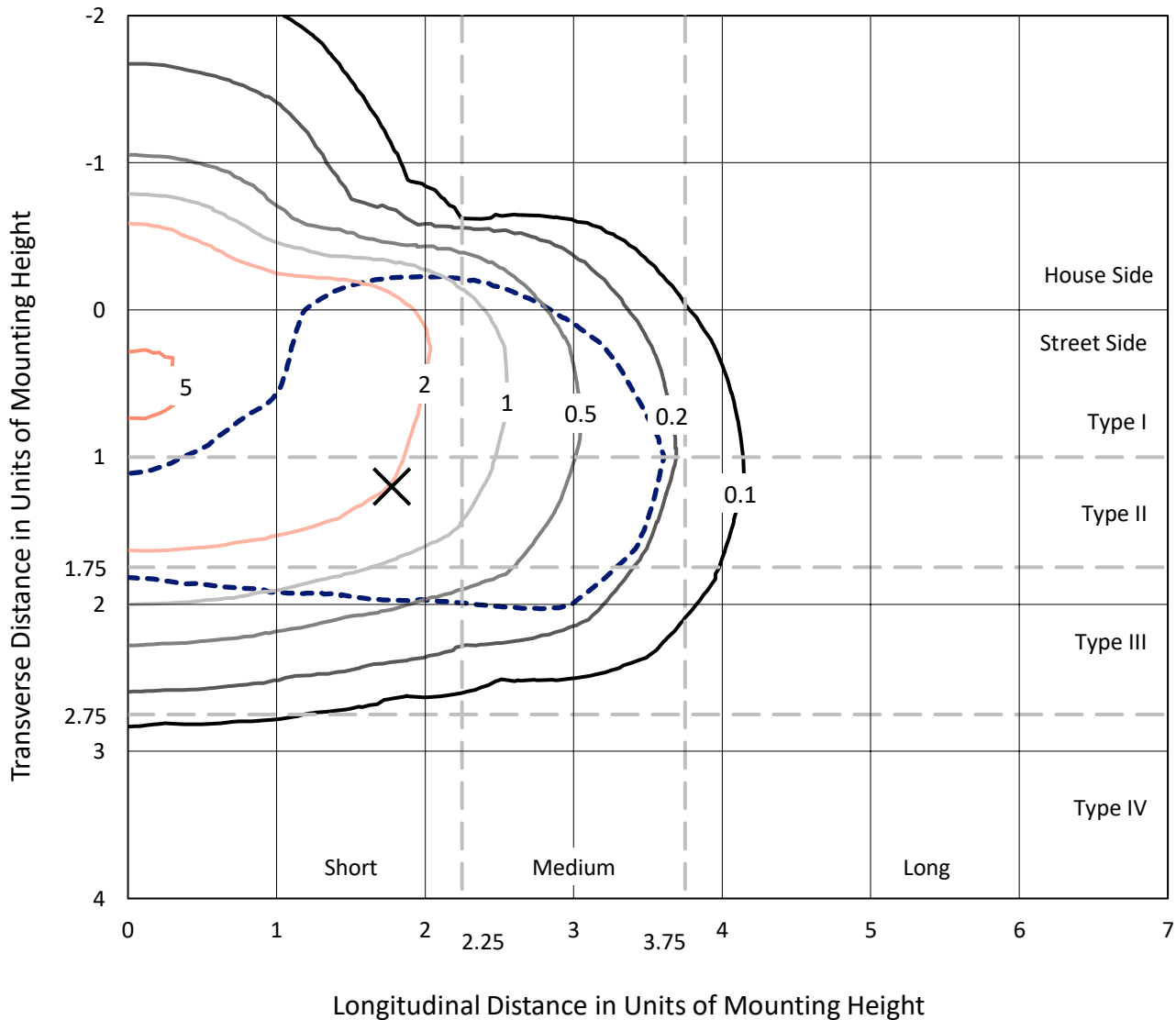
Lumens per Lamp: N/A  
Luminaire Lumens: 34666.7 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

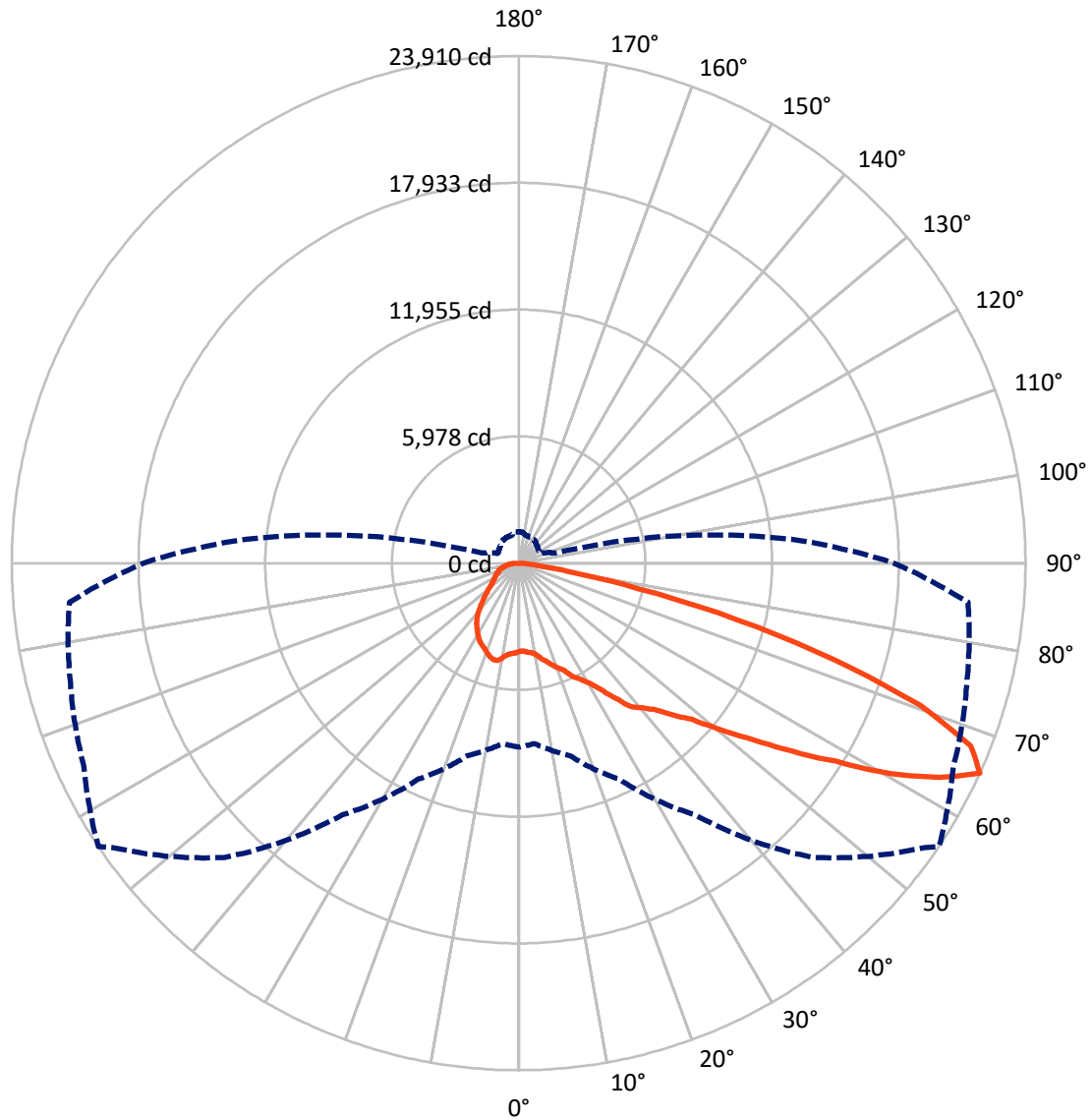
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	7774.6	0.0	7774.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	26892.1	0.0	26892.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	34666.7	0.0	34666.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.3	1.2
10°-20°	1338.9	3.9
20°-30°	2384.0	6.9
30°-40°	3570.0	10.3
40°-50°	5289.4	15.3
50°-60°	8150.3	23.5
60°-70°	9227.1	26.6
70°-80°	3829.3	11.0
80°-90°	465.2	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°	34666.7	100.0
0°-180°	34666.7	100.0

**Coefficient of Utilization**



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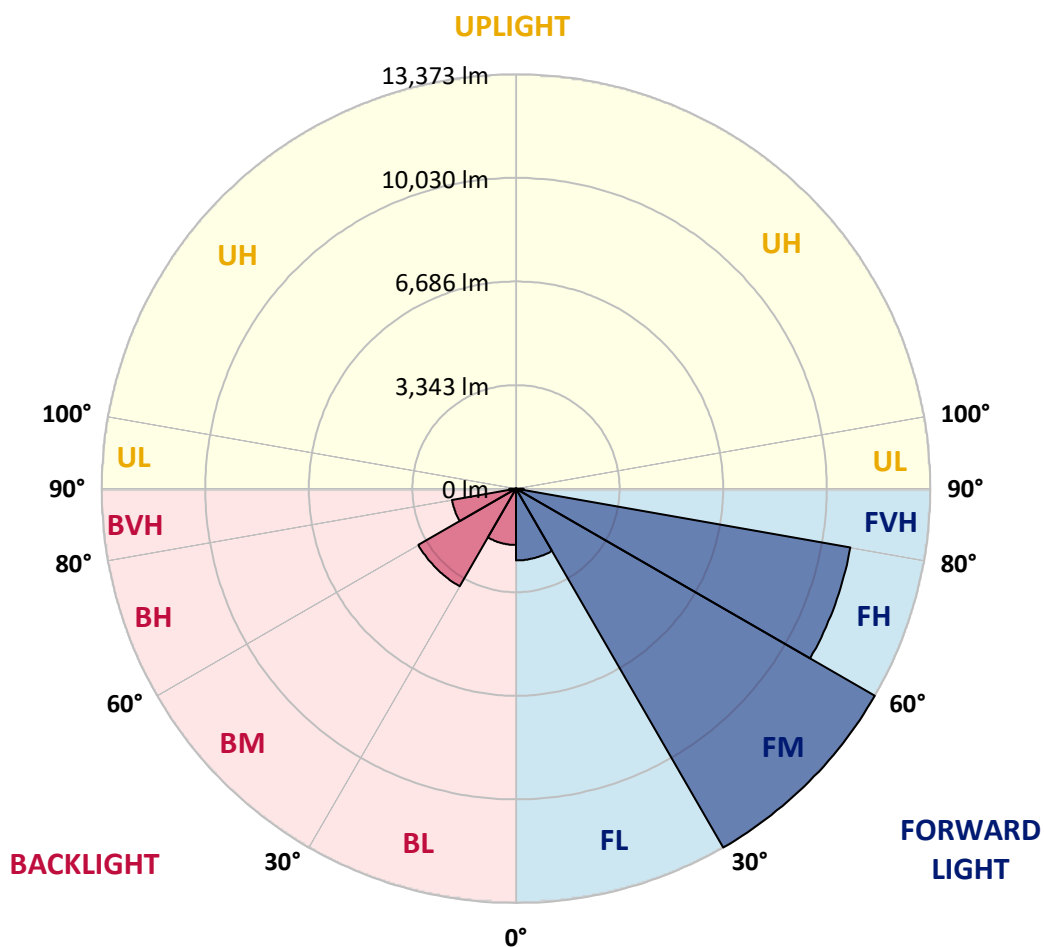
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2316.7	6.7			
FM (30°-60°)	13372.9	38.6			
FH (60°-80°)	10957.0	31.6			G4/12000
FVH (80°-90°)	245.4	0.7			G3/500
BL (0°-30°)	1818.6	5.2	B3/2500		
BM (30°-60°)	3636.8	10.5	B3/5000		
BH (60°-80°)	2099.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	219.8	0.6			G2/225
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°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
2.5°	4052.2	4073.9	4059.4	4102.9	4139.2	4139.2	4168.2	4146.5	4175.5	4215.4
5°	4186.4	4099.3	4146.5	4168.2	4157.4	4175.5	4146.5	4219.0	4171.9	4248.1
7.5°	4219.0	4251.7	4291.6	4255.3	4288.0	4269.8	4273.4	4262.6	4237.2	4298.8
10°	4458.5	4411.3	4502.0	4447.6	4440.3	4433.1	4418.6	4364.1	4425.8	4429.4
12.5°	4734.2	4690.6	4687.0	4643.5	4701.5	4596.3	4618.1	4589.1	4599.9	4614.5
15°	4933.7	4915.6	4999.0	4948.2	4872.0	4824.9	4875.7	4795.8	4835.7	4828.5
17.5°	5329.1	5325.5	5263.8	5180.4	5136.8	5067.9	5057.0	5024.4	5053.4	5038.9
20°	5604.8	5644.7	5655.6	5557.7	5390.8	5314.6	5296.5	5271.1	5303.7	5292.8
22.5°	6025.6	5964.0	6011.1	5840.6	5779.0	5597.6	5532.3	5496.0	5652.0	5612.1
25°	6294.1	6359.4	6312.2	6254.2	6116.3	5891.4	5844.3	5924.1	5985.7	5942.2
27.5°	6899.9	6834.6	6791.1	6617.0	6526.3	6290.5	6236.0	6207.0	6221.5	6246.9
30°	7360.6	7396.9	7299.0	7175.6	6947.1	6707.6	6580.7	6555.3	6504.5	6461.0
32.5°	8017.3	7962.8	7904.8	7825.0	7629.1	7313.5	7190.1	7095.8	6943.4	6740.3
35°	8332.9	8488.9	8445.3	8231.3	8082.6	7962.8	7926.6	7781.5	7654.5	7335.2
37.5°	8858.9	8924.2	8862.5	8793.6	8724.7	8597.7	8554.2	8594.1	8343.7	7817.7
40°	9199.9	9337.7	9464.7	9272.4	9257.9	9283.3	9014.9	8967.7	8452.6	8176.9
42.5°	9896.4	9954.5	9979.8	9972.6	10056.0	10056.0	9544.5	9442.9	9076.5	8851.6
45°	10817.8	10865.0	10955.7	11021.0	10926.7	10973.8	10244.7	10204.8	9878.3	9834.7
47.5°	11615.9	11728.4	11931.6	12123.8	12247.2	12087.5	11289.5	11006.5	10923.1	11184.2
50°	12312.5	12178.2	12653.5	12849.4	13389.9	13654.7	12443.1	12330.6	12196.4	12697.0
52.5°	12381.4	12562.8	13233.9	13625.7	14739.4	15229.2	13857.9	13810.7	13647.5	14224.3
55°	12874.8	12853.0	13527.8	14376.6	15700.8	16524.2	15700.8	15671.7	15316.2	15864.0
57.5°	12791.3	13012.6	13545.9	14732.2	16567.8	17913.7	17837.5	17638.0	17141.0	17587.2
60°	12508.4	12566.4	13215.8	14721.3	17072.0	19339.4	20144.7	20184.6	19168.9	19524.4
62.5°	10904.9	11039.1	11862.6	13564.0	16712.9	20322.5	22397.5	22256.0	21443.4	21037.1
65°	8673.9	8539.6	9395.8	11235.0	14478.2	19625.9	23384.3	23910.3	22633.3	21889.6
67.5°	5318.2	5285.6	6109.1	7730.7	10832.4	16702.0	22597.0	23007.0	22303.2	21708.3
70°	2738.9	2655.5	3170.6	4313.4	6809.2	12254.4	19665.8	20068.5	20739.7	19470.0
72.5°	1277.0	1258.8	1534.5	2122.2	3468.1	7204.6	15229.2	15519.4	16934.2	16415.4
75°	750.9	761.8	917.8	1110.1	1690.5	3395.5	10106.8	10669.1	12203.6	11830.0
77.5°	562.3	562.3	653.0	772.7	986.7	1313.2	4988.1	5731.8	7135.7	6417.4
80°	413.6	420.8	500.6	580.4	685.6	678.4	1980.7	2321.7	3272.2	2797.0
82.5°	322.9	333.7	388.2	431.7	482.5	409.9	812.6	874.3	1345.9	1070.2
85°	224.9	232.2	304.7	293.8	293.8	228.5	337.4	355.5	533.3	507.9
87.5°	54.4	61.7	148.7	163.2	123.3	68.9	105.2	119.7	192.3	221.3
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°
4161.0	0°	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0	4161.0
4233.5	2.5°	4179.1	4193.6	4255.3	4222.7	4240.8	4164.6	4226.3	4175.5	4219.0	4197.3
4266.2	5°	4295.2	4262.6	4298.8	4273.4	4273.4	4302.5	4346.0	4313.4	4378.7	4349.6
4291.6	7.5°	4342.4	4346.0	4367.8	4371.4	4353.3	4444.0	4447.6	4436.7	4498.4	4483.9
4465.7	10°	4458.5	4462.1	4502.0	4523.8	4505.6	4538.3	4502.0	4473.0	4469.3	4454.8
4603.6	12.5°	4643.5	4679.8	4672.5	4690.6	4694.3	4556.4	4473.0	4331.5	4313.4	4331.5
4806.7	15°	4814.0	4799.5	4806.7	4843.0	4690.6	4469.3	4320.6	4200.9	4208.2	4211.8
5071.5	17.5°	5017.1	5028.0	5038.9	4872.0	4592.7	4331.5	4200.9	4200.9	4164.6	4179.1
5256.6	20°	5249.3	5205.8	5111.5	4875.7	4422.2	4171.9	4132.0	4132.0	4088.4	4059.4
5456.1	22.5°	5430.7	5343.6	5202.1	4763.2	4269.8	4110.2	4012.3	3943.3	3892.5	3834.5
5677.4	25°	5546.8	5499.6	5223.9	4647.1	4157.4	3947.0	3801.8	3696.6	3631.3	3555.2
5851.5	27.5°	5724.5	5633.8	5285.6	4512.9	4034.0	3783.7	3558.8	3395.5	3272.2	3192.4
6116.3	30°	5964.0	5833.4	5242.0	4320.6	3845.4	3500.7	3235.9	3025.5	2884.0	2818.7
6366.6	32.5°	6159.9	5989.4	5205.8	4146.5	3635.0	3214.2	2862.3	2648.2	2568.4	2485.0
6787.5	35°	6533.5	6196.1	5180.4	4048.5	3446.3	2927.6	2557.5	2372.5	2271.0	2147.6
7037.8	37.5°	6820.1	6555.3	5118.7	3845.4	3203.3	2648.2	2325.4	2158.5	2006.1	1875.5
7618.2	40°	7269.9	7055.9	5122.3	3558.8	2916.7	2408.8	2144.0	1969.8	1777.6	1665.1
8478.0	42.5°	8115.2	7549.3	5144.1	3330.2	2593.8	2212.9	1980.7	1774.0	1581.7	1487.4
9457.5	45°	9152.7	8227.7	5009.9	3123.5	2263.7	2027.9	1784.8	1578.1	1454.7	1385.8
10788.8	47.5°	10346.2	8891.5	4828.5	2735.3	1988.0	1832.0	1603.5	1483.7	1393.0	1353.1
12504.7	50°	11681.2	9842.0	4777.7	2379.8	1774.0	1665.1	1516.4	1425.7	1364.0	1316.9
14438.3	52.5°	13400.8	10948.4	4676.1	2013.4	1588.9	1530.9	1483.7	1422.1	1367.6	1327.7
16241.3	55°	15044.1	12174.6	4567.3	1712.3	1458.3	1465.6	1491.0	1436.6	1389.4	1327.7
18261.9	57.5°	16894.3	13426.2	4164.6	1491.0	1360.4	1432.9	1483.7	1422.1	1374.9	1327.7
20329.7	60°	18037.0	14130.0	3377.4	1298.7	1273.3	1371.3	1440.2	1374.9	1324.1	1342.3
21280.2	62.5°	18501.4	13759.9	2546.7	1179.0	1211.7	1287.8	1371.3	1345.9	1309.6	1378.5
21269.3	65°	17710.5	12907.4	1821.1	1077.4	1128.2	1204.4	1309.6	1338.6	1349.5	1483.7
19535.3	67.5°	15758.8	11238.7	1338.6	994.0	1041.2	1153.6	1353.1	1400.3	1393.0	1559.9
16393.6	70°	12609.9	8790.0	1044.8	925.1	1008.5	1193.5	1414.8	1414.8	1364.0	1559.9
12504.7	72.5°	9174.5	6196.1	899.7	845.3	925.1	1095.6	1407.6	1403.9	1338.6	1425.7
7962.8	75°	5554.0	3605.9	794.5	765.4	794.5	939.6	1345.9	1324.1	1233.4	1226.2
3830.9	77.5°	2767.9	1813.9	649.4	678.4	692.9	787.2	1182.6	1215.3	1091.9	1062.9
1512.8	80°	1168.1	790.8	540.5	584.1	584.1	663.9	983.1	1004.9	906.9	852.5
598.6	82.5°	533.3	453.5	460.7	507.9	475.2	515.1	780.0	805.4	736.4	645.7
253.9	85°	224.9	257.6	351.9	399.0	351.9	333.7	536.9	565.9	478.9	399.0
108.8	87.5°	101.6	141.5	221.3	290.2	177.8	156.0	286.6	297.5	239.4	177.8
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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180°  
4161.0  
4157.4  
4309.7  
4462.1  
4454.8  
4338.7  
4262.6  
4182.8  
4015.9  
3801.8  
3569.7  
3228.7  
2855.0  
2481.4  
2136.7  
1879.2  
1676.0  
1494.6  
1400.3  
1345.9  
1324.1  
1324.1  
1324.1  
1324.1  
1327.7  
1360.4  
*1483.7*  
1570.8  
1527.3  
1374.9  
1211.7  
1044.8  
834.4  
631.2  
402.7  
166.9  
0.0

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