

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: P477752

Luminaire Tested: **IFLD-L-SA7A-735-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477752  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

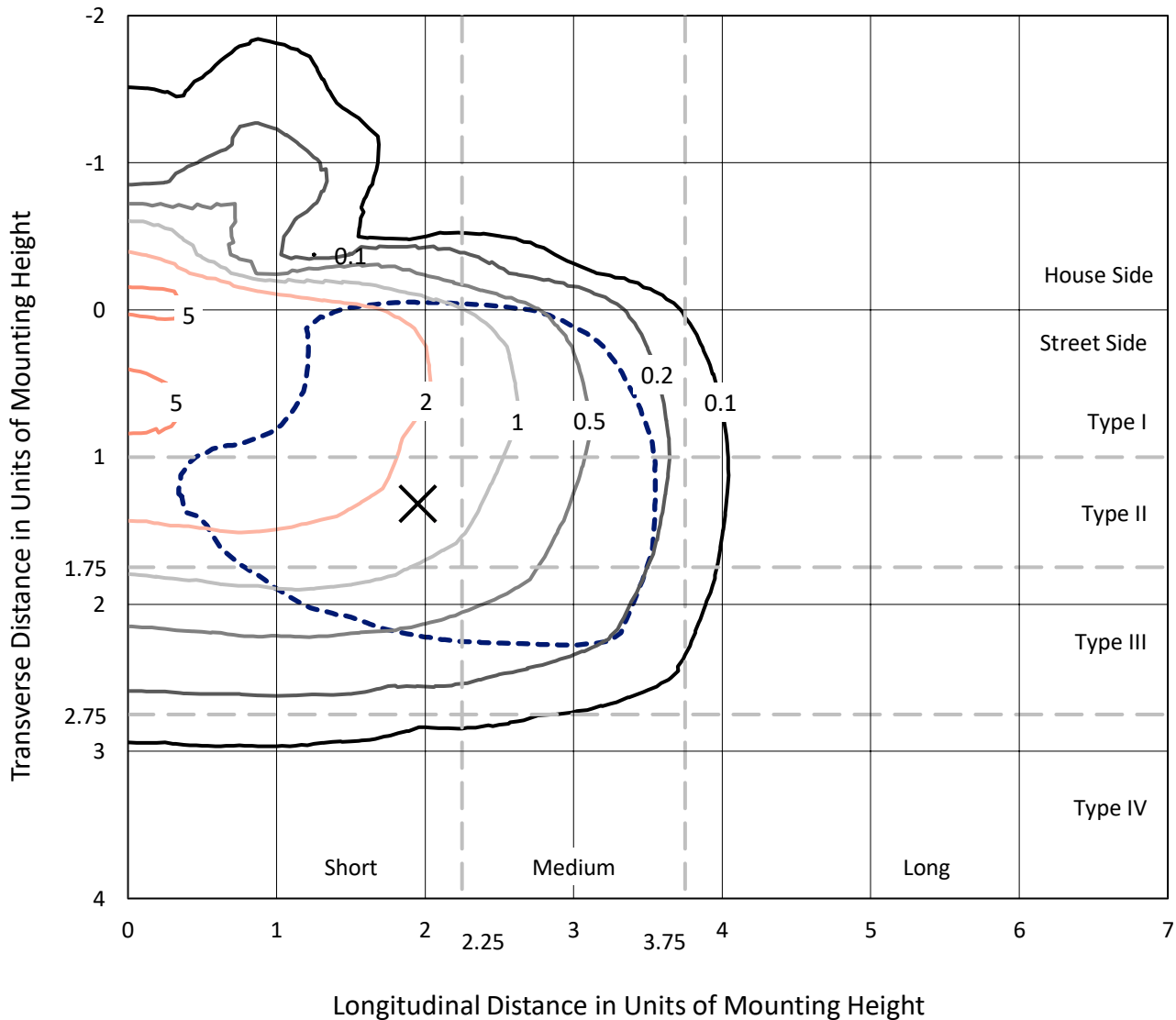
Lumens per Lamp: N/A  
Luminaire Lumens: 30325.2 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

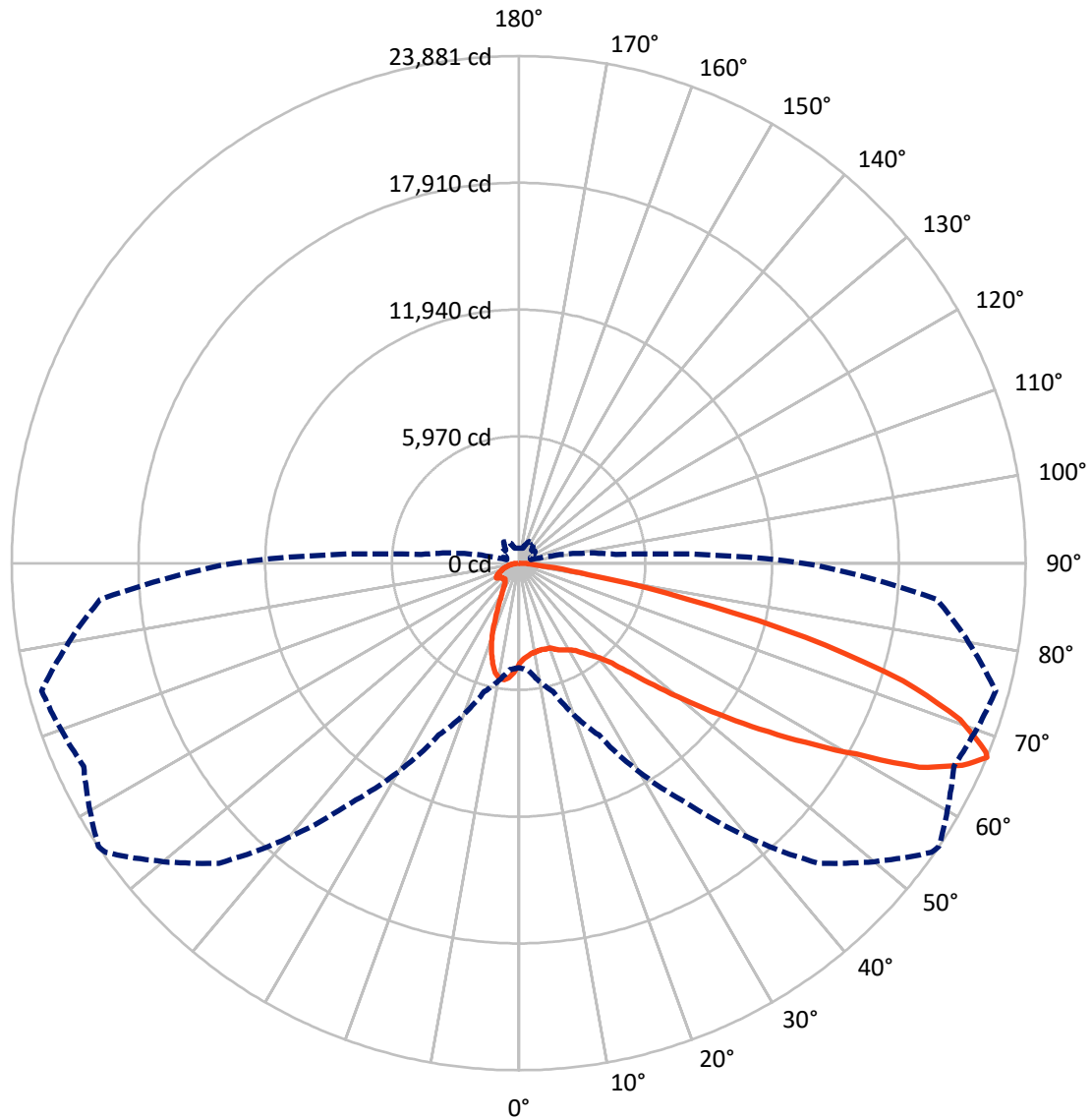
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	4800.8	0.0	4800.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	25524.4	0.0	25524.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	30325.2	0.0	30325.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.6	1.5
10°-20°	1240.1	4.1
20°-30°	1944.9	6.4
30°-40°	2776.3	9.2
40°-50°	4190.3	13.8
50°-60°	6670.2	22.0
60°-70°	8527.4	28.1
70°-80°	4157.7	13.7
80°-90°	363.7	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°	30325.2	100.0
0°-180°	30325.2	100.0

**Coefficient of Utilization**

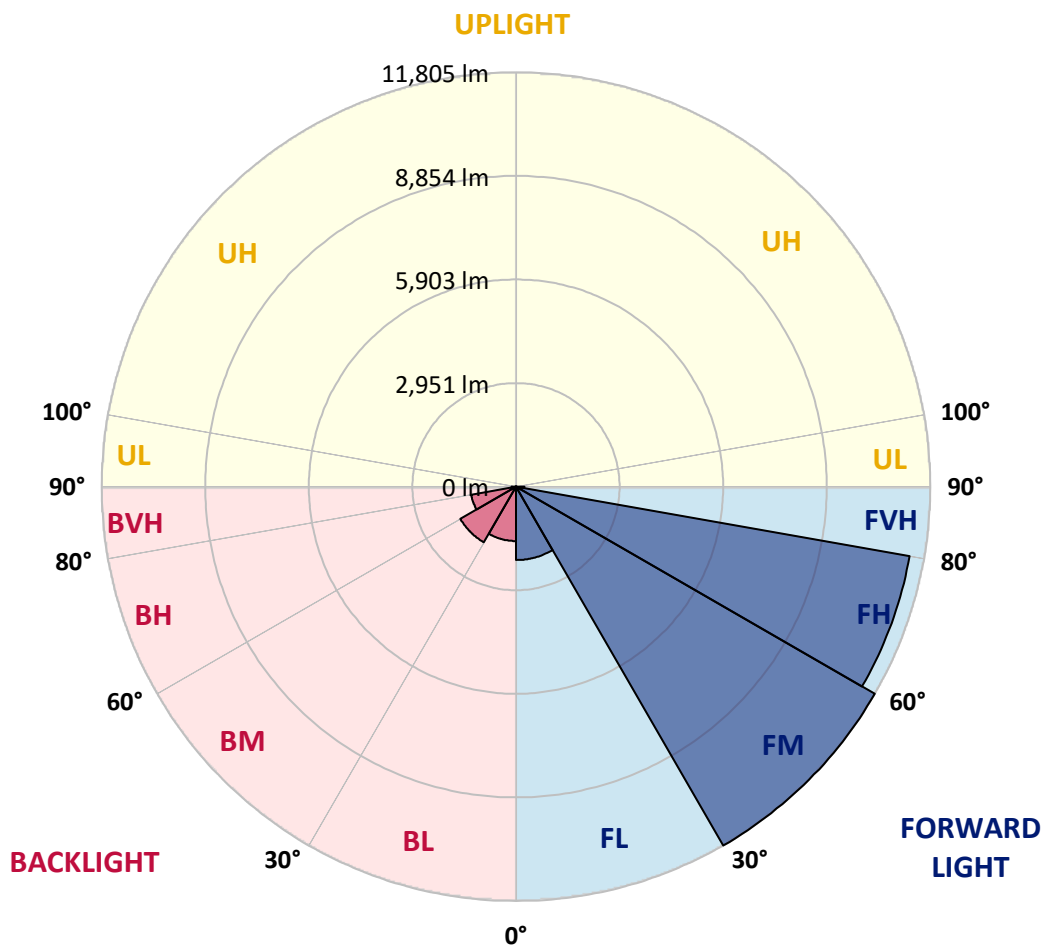


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.7	6.9			
FM (30°-60°)	11805.3	38.9			
FH (60°-80°)	11387.8	37.6			G4/12000
FVH (80°-90°)	241.5	0.8			G3/500
BL (0°-30°)	1549.8	5.1	B3/2500		
BM (30°-60°)	1831.5	6.0	B2/2500		
BH (60°-80°)	1297.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	122.2	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5
2.5°	4334.5	4316.7	4338.0	4316.7	4412.7	4469.6	4487.4	4512.3	4601.2	4686.5
5°	4153.1	4074.9	4160.3	4188.7	4195.8	4291.8	4391.4	4409.2	4455.4	4594.1
7.5°	3850.9	3939.8	3907.8	3993.1	4082.0	4178.0	4341.6	4295.4	4466.1	4597.6
10°	3786.9	3794.0	3829.6	3861.6	3939.8	4064.3	4291.8	4263.4	4437.6	4718.5
12.5°	3850.9	3850.9	3840.2	3815.3	3904.2	4025.1	4206.5	4220.7	4494.5	4754.1
15°	4074.9	4117.6	4003.8	4021.6	3986.0	4025.1	4185.2	4217.2	4515.8	4782.5
17.5°	4622.5	4608.3	4473.2	4284.7	4128.3	4103.4	4213.6	4249.2	4494.5	4864.3
20°	5155.9	5127.4	4892.8	4697.2	4387.8	4242.0	4259.8	4263.4	4530.1	4917.6
22.5°	5749.7	5824.4	5568.3	5170.1	4786.1	4423.4	4352.3	4409.2	4611.8	4946.1
25°	6681.3	6521.3	6300.8	5778.1	5159.4	4704.3	4505.2	4533.6	4690.1	5017.2
27.5°	7353.3	7289.3	6944.4	6521.3	5682.1	4924.8	4587.0	4640.3	4832.3	5013.6
30°	8000.5	8000.5	7790.7	7157.8	6233.3	5294.6	4761.2	4736.3	4764.7	5006.5
32.5°	8757.9	8654.8	8352.5	7932.9	6926.7	5632.4	4899.9	4907.0	4907.0	5138.1
35°	9156.1	9323.3	9120.6	8437.9	7456.5	6194.2	5234.1	5180.8	5141.7	5283.9
37.5°	9739.3	9838.8	9625.5	9223.7	8114.3	6649.3	5529.2	5486.6	5259.0	5397.7
40°	10091.3	10073.5	10066.4	9881.5	8985.5	7186.2	5963.0	5852.8	5547.0	5799.5
42.5°	10290.4	10254.9	10692.2	10578.4	9806.8	7975.6	6507.1	6446.6	6108.8	6514.2
45°	10514.4	10777.6	11136.7	11456.7	10763.3	9085.0	7428.0	7342.7	7040.4	7556.0
47.5°	10710.0	11033.6	11492.3	11833.6	11627.4	10290.4	8565.9	8587.2	8388.1	8917.9
50°	11037.1	11069.1	11691.4	12381.2	12541.2	11403.4	10094.9	10059.3	9970.4	10713.6
52.5°	10937.6	11033.6	11819.4	12701.2	12964.4	12580.3	11737.6	11844.3	11727.0	12662.1
55°	9316.1	9604.2	11741.2	13039.0	13967.1	13910.2	13849.8	13778.6	13771.5	14852.5
57.5°	8580.1	8814.8	10343.8	13412.4	15040.9	15460.5	15851.7	15929.9	15926.3	17231.3
60°	8096.5	8338.3	9778.4	13209.7	15954.8	17490.9	18241.1	18251.8	18230.5	19773.7
62.5°	7150.7	7385.4	8800.6	12100.3	16207.2	19364.8	21036.0	21174.7	20196.8	21964.0
65°	6012.8	6204.8	7452.9	10404.2	15535.2	20556.0	23137.4	22973.9	21853.8	23215.7
67°	4917.6	5045.6	6261.7	8932.1	13778.6	19983.5	23745.5	23880.6	22618.3	23269.0
67.5°	4604.7	4722.1	5870.6	8430.7	13110.2	19549.7	23766.8	23745.5	22632.5	23279.7
70°	3196.6	3246.4	4000.3	5799.5	9657.5	16516.6	22031.6	22081.4	21683.1	22017.4
72.5°	2119.2	2193.9	2673.9	3655.3	5692.8	12018.5	18415.4	18948.7	18696.3	18052.7
75°	1365.4	1408.1	1749.4	2176.1	2802.0	6844.9	13604.4	13960.0	13380.4	11165.1
77.5°	764.5	810.7	1056.1	1322.7	1365.4	2848.2	7641.4	8082.3	6848.4	4743.4
80°	476.5	536.9	796.5	785.8	650.7	1045.4	3150.4	3374.4	2737.9	1632.1
82.5°	359.1	405.4	615.1	551.1	366.2	465.8	1180.5	1265.9	1002.7	629.4
85°	245.3	309.4	444.5	341.4	192.0	224.0	469.4	504.9	458.7	305.8
87.5°	88.9	131.6	231.1	170.7	85.3	67.6	152.9	170.7	163.6	138.7
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°
4718.5	0°	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5	4718.5
4761.2	2.5°	4828.7	4878.5	4903.4	5049.2	5109.7	5099.0	5113.2	5134.5	5155.9	5184.3
4821.6	5°	4867.9	5020.8	5102.5	5273.2	5387.0	5337.2	5401.2	5383.4	5358.6	5355.0
4931.9	7.5°	4995.9	5191.4	5436.8	5483.0	5532.8	5408.3	5301.7	5155.9	5120.3	4995.9
5024.3	10°	5223.4	5383.4	5682.1	5699.9	5479.5	5159.4	4921.2	4619.0	4615.4	4434.1
5166.5	12.5°	5440.3	5621.7	5863.5	5760.4	5234.1	4796.7	4409.2	4078.5	3939.8	3847.4
5251.9	15°	5575.5	5874.1	6002.2	5557.7	4803.9	4213.6	3712.2	3356.7	3214.4	3146.9
5358.6	17.5°	5699.9	6115.9	6059.0	5202.1	4274.0	3612.7	3015.3	2705.9	2666.8	2617.1
5529.2	20°	5870.6	6204.8	5856.4	4739.9	3673.1	2837.5	2457.0	2307.7	2343.3	2364.6
5547.0	22.5°	6030.6	6251.1	5600.4	4234.9	2901.5	2247.3	2058.8	2090.8	2144.1	2215.2
5589.7	25°	6101.7	6325.7	5255.4	3538.0	2208.1	1891.7	1849.0	1902.3	1991.2	1994.8
5650.1	27.5°	6147.9	6272.4	4839.4	2858.8	1745.9	1653.4	1717.4	1756.6	1767.2	1809.9
5778.1	30°	6229.7	6162.2	4313.2	2044.6	1465.0	1468.5	1550.3	1550.3	1550.3	1582.3
5906.1	32.5°	6372.0	6087.5	3698.0	1493.4	1262.3	1376.1	1354.8	1347.6	1333.4	1294.3
6069.7	35°	6460.8	5884.8	2919.3	1105.8	1134.3	1262.3	1255.2	1145.0	960.1	867.6
6485.7	37.5°	6645.7	5781.7	2147.7	853.4	1059.6	1205.4	1166.3	899.6	696.9	608.0
7001.3	40°	7044.0	5714.1	1486.3	746.7	1009.8	1177.0	1041.8	768.0	533.4	376.9
7797.8	42.5°	7531.1	5717.7	1009.8	704.0	1013.4	1237.4	1002.7	657.8	376.9	302.2
8861.0	45°	8185.4	5664.4	693.4	704.0	1077.4	1337.0	1027.6	597.4	366.2	384.0
10194.4	47.5°	8889.4	5710.6	515.6	640.0	1088.1	1340.5	938.7	586.7	352.0	444.5
11645.2	50°	9710.8	5756.8	426.7	590.3	1091.6	1297.9	864.1	572.5	366.2	469.4
13309.3	52.5°	10557.1	5902.6	362.7	558.3	1134.3	1280.1	864.1	593.8	366.2	408.9
15428.5	55°	11819.4	6275.9	522.7	696.9	1290.7	1397.4	1063.2	832.1	512.0	526.3
17458.9	57.5°	13213.3	6660.0	583.1	732.5	1326.3	1258.7	1145.0	917.4	540.5	544.0
19037.6	60°	14130.7	6674.2	579.6	714.7	1241.0	1088.1	1120.1	967.2	551.1	465.8
20015.5	62.5°	14496.9	6240.4	604.5	714.7	1155.6	1017.0	1148.5	1041.8	568.9	583.1
20292.8	65°	14080.9	5344.3	583.1	640.0	1017.0	910.3	1155.6	1056.1	622.3	586.7
19795.0	67°	13430.2	4604.7	593.8	608.0	945.8	864.1	1216.1	1109.4	721.8	704.0
19535.4	67.5°	13245.3	4409.2	590.3	590.3	920.9	849.8	1230.3	1109.4	736.0	728.9
17242.0	70°	11673.6	3573.6	604.5	583.1	814.3	807.2	1308.5	1169.9	846.3	853.4
12665.7	72.5°	8885.9	2709.5	600.9	583.1	707.6	771.6	1319.2	1209.0	920.9	853.4
7093.8	75°	5049.2	1621.4	529.8	508.5	558.3	672.0	1233.9	1152.1	896.1	764.5
2834.0	77.5°	2087.2	835.6	487.1	458.7	462.3	547.6	1027.6	1073.8	853.4	650.7
945.8	80°	778.7	501.4	391.1	366.2	355.6	401.8	732.5	856.9	728.9	533.4
416.0	82.5°	405.4	312.9	266.7	266.7	241.8	256.0	394.7	568.9	551.1	366.2
167.1	85°	206.2	177.8	152.9	149.3	135.1	120.9	199.1	337.8	316.5	202.7
74.7	87.5°	110.2	99.6	64.0	60.4	49.8	32.0	35.6	67.6	110.2	88.9
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°
4718.5
5212.8
5387.0
5038.5
4426.9
3826.0
3132.6
2641.9
2339.7
2176.1
2030.3
1849.0
1617.9
1273.0
910.3
604.5
366.2
295.1
391.1
494.3
544.0
419.6
554.7
526.3
480.0
590.3
576.0
693.4
714.7
789.4
757.4
682.7
615.1
487.1
288.0
167.1
64.0
0.0

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