

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: P477440

Luminaire Tested: **IFLD-L-SA7A-750-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477440  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

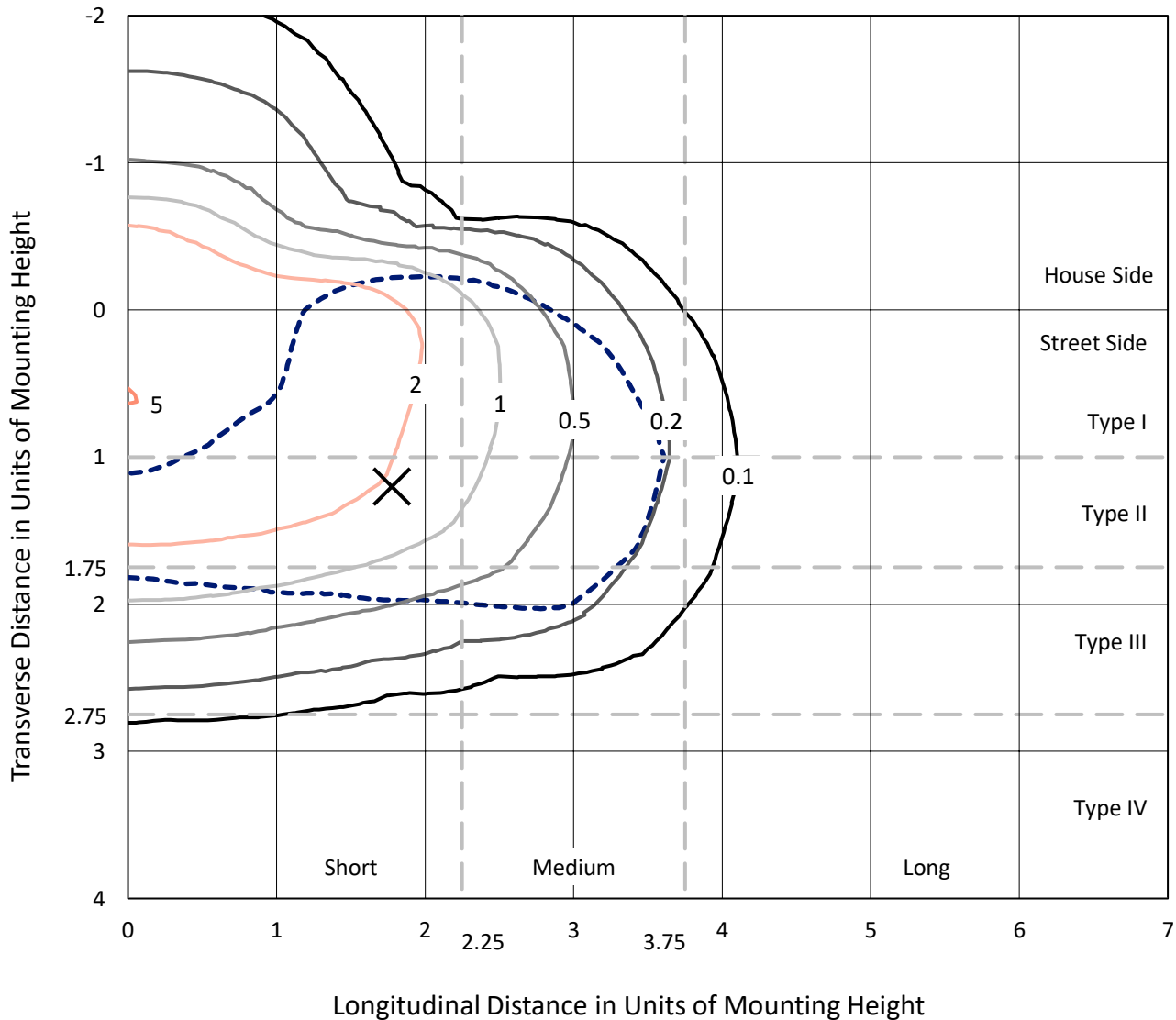
Lumens per Lamp: N/A  
Luminaire Lumens: 32610.3 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

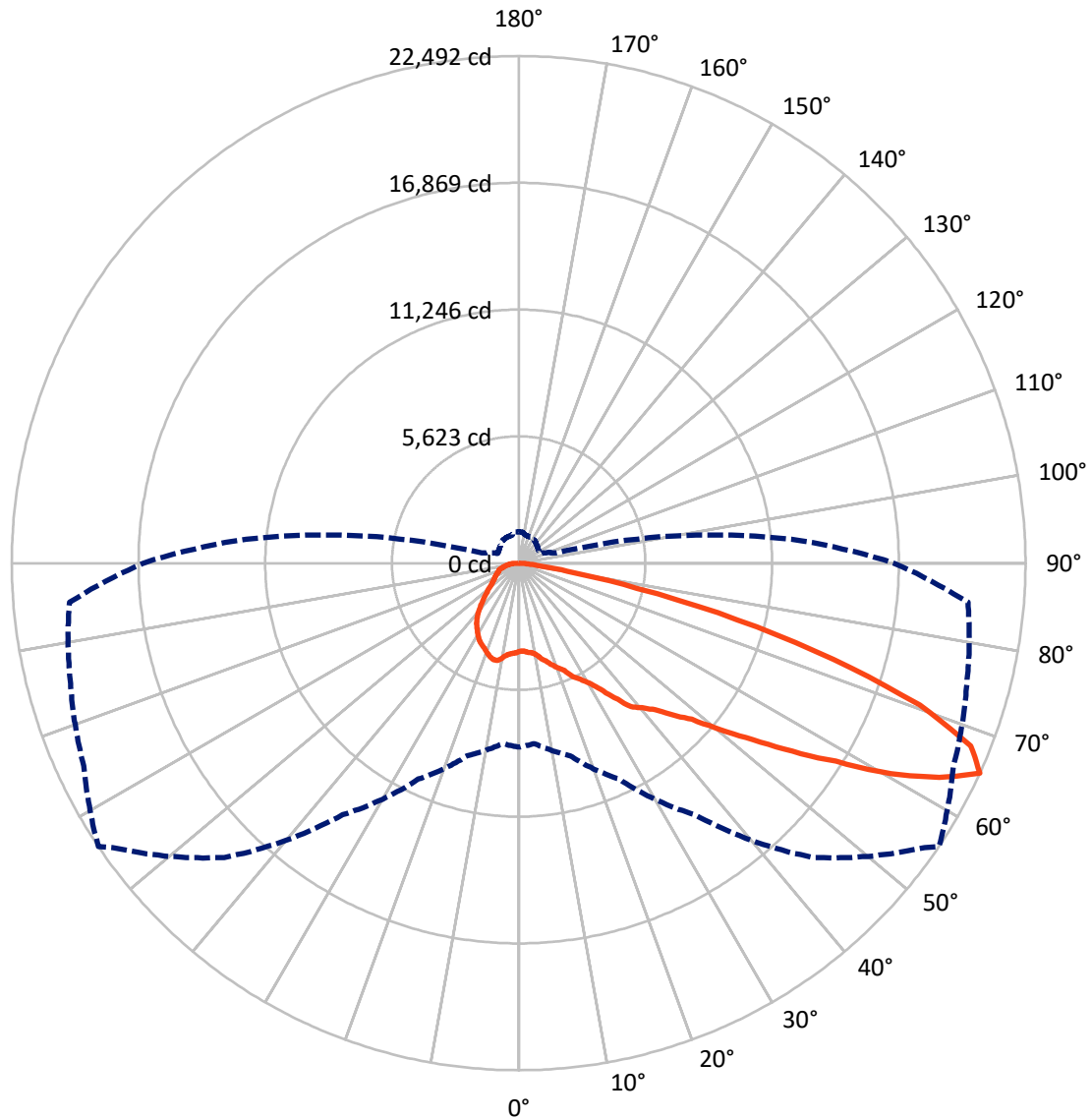
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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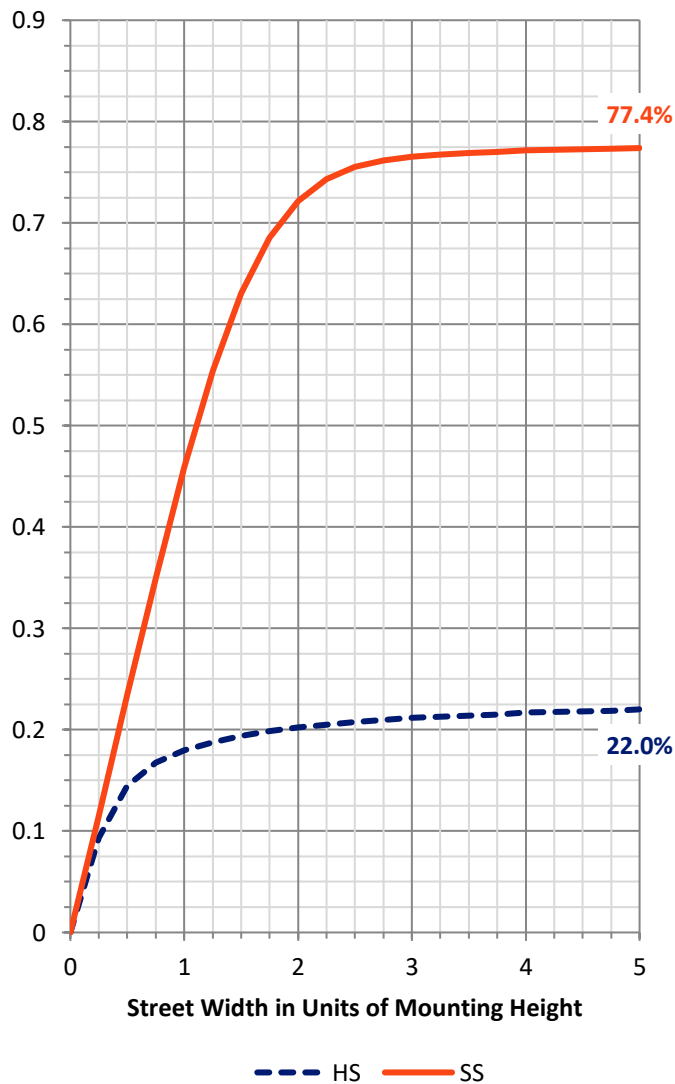
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7313.4	0.0	7313.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	25296.8	0.0	25296.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	32610.3	0.0	32610.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.9	1.2
10°-20°	1259.5	3.9
20°-30°	2242.6	6.9
30°-40°	3358.2	10.3
40°-50°	4975.7	15.3
50°-60°	7666.8	23.5
60°-70°	8679.8	26.6
70°-80°	3602.2	11.0
80°-90°	437.6	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°	32610.3	100.0
0°-180°	32610.3	100.0

**Coefficient of Utilization**



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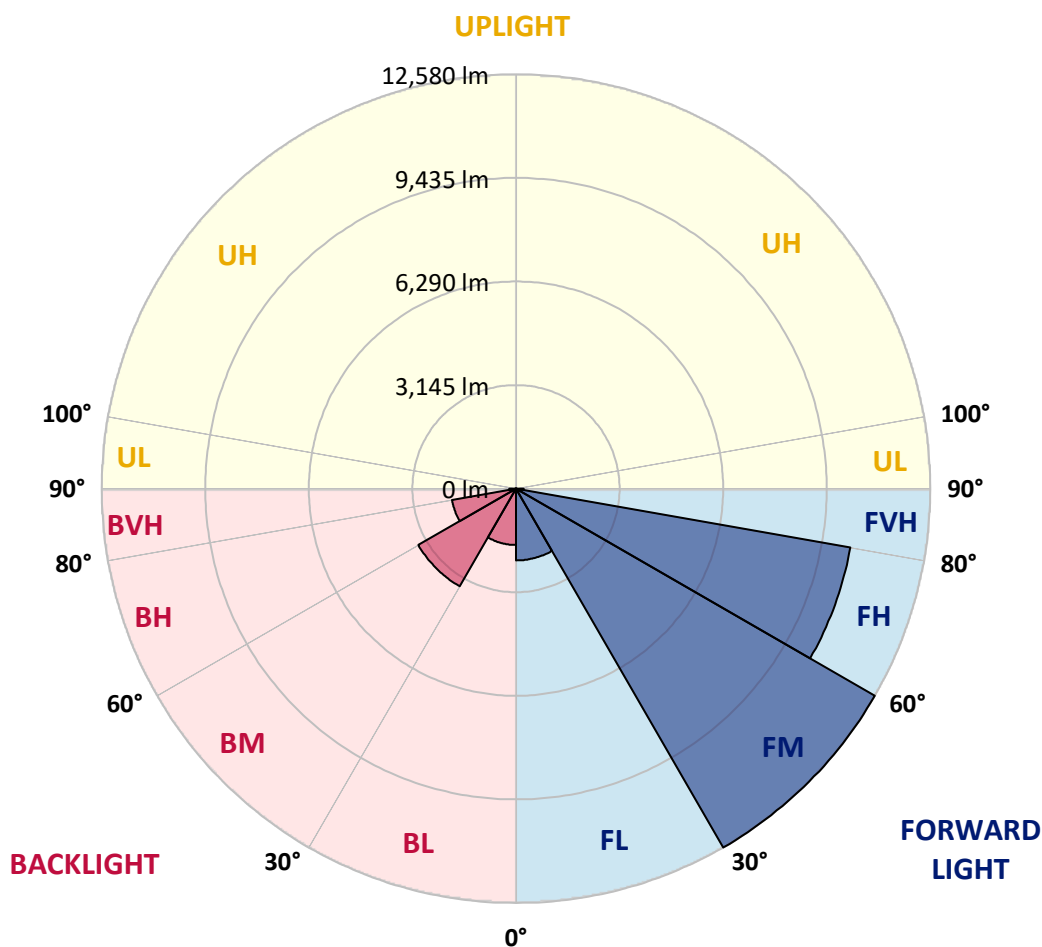
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.3	6.7			
FM (30°-60°)	12579.6	38.6			
FH (60°-80°)	10307.1	31.6			G4/12000
FVH (80°-90°)	230.8	0.7			G3/500
BL (0°-30°)	1710.7	5.2	B3/2500		
BM (30°-60°)	3421.1	10.5	B3/5000		
BH (60°-80°)	1974.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	206.8	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°	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2
2.5°	3811.8	3832.3	3818.6	3859.6	3893.7	3893.7	3921.0	3900.5	3927.8	3965.4
5°	3938.1	3856.2	3900.5	3921.0	3910.8	3927.8	3900.5	3968.8	3924.4	3996.1
7.5°	3968.8	3999.5	4037.0	4002.9	4033.6	4016.5	4020.0	4009.7	3985.8	4043.8
10°	4194.0	4149.6	4234.9	4183.8	4176.9	4170.1	4156.5	4105.3	4163.3	4166.7
12.5°	4453.3	4412.4	4409.0	4368.0	4422.6	4323.7	4344.1	4316.8	4327.1	4340.7
15°	4641.0	4624.0	4702.5	4654.7	4583.0	4538.7	4586.4	4511.4	4548.9	4542.1
17.5°	5013.0	5009.6	4951.6	4873.1	4832.1	4767.3	4757.1	4726.3	4753.6	4740.0
20°	5272.3	5309.9	5320.1	5228.0	5071.0	4999.3	4982.3	4958.4	4989.1	4978.9
22.5°	5668.2	5610.2	5654.6	5494.2	5436.1	5265.5	5204.1	5170.0	5316.7	5279.2
25°	5920.7	5982.2	5937.8	5883.2	5753.5	5541.9	5497.6	5572.7	5630.7	5589.7
27.5°	6490.6	6429.2	6388.2	6224.4	6139.1	5917.3	5866.1	5838.8	5852.5	5876.4
30°	6924.0	6958.1	6866.0	6750.0	6535.0	6309.8	6190.3	6166.4	6118.7	6077.7
32.5°	7541.7	7490.5	7435.9	7360.8	7176.5	6879.6	6763.6	6674.9	6531.6	6340.5
35°	7838.6	7985.3	7944.4	7743.0	7603.1	7490.5	7456.4	7319.9	7200.4	6900.1
37.5°	8333.4	8394.8	8336.8	8272.0	8207.1	8087.7	8046.7	8084.3	7848.8	7354.0
40°	8654.2	8783.8	8903.3	8722.4	8708.8	8732.6	8480.1	8435.8	7951.2	7691.8
42.5°	9309.4	9364.0	9387.9	9381.0	9459.5	9459.5	8978.3	8882.8	8538.1	8326.6
45°	10176.1	10220.5	10305.8	10367.2	10278.5	10322.9	9637.0	9599.4	9292.3	9251.3
47.5°	10926.9	11032.7	11223.8	11404.7	11520.7	11370.5	10619.8	10353.6	10275.1	10520.8
50°	11582.1	11455.8	11902.9	12087.2	12595.6	12844.7	11705.0	11599.2	11472.9	11943.8
52.5°	11646.9	11817.6	12448.9	12817.4	13865.1	14325.8	13035.8	12991.5	12837.9	13380.5
55°	12111.0	12090.6	12725.3	13523.8	14769.4	15544.0	14769.4	14742.1	14407.7	14923.0
57.5°	12032.6	12240.7	12742.4	13858.3	15585.0	16851.0	16779.4	16591.7	16124.2	16543.9
60°	11766.4	11821.0	12431.8	13848.0	16059.3	18192.2	18949.7	18987.3	18031.8	18366.2
62.5°	10258.0	10384.3	11159.0	12759.4	15721.5	19117.0	21068.9	20935.8	20171.4	19789.2
65°	8159.3	8033.1	8838.4	10568.6	13619.4	18461.7	21997.1	22491.9	21290.7	20591.2
67.5°	5002.8	4972.0	5746.7	7272.1	10189.8	15711.3	21256.6	21642.2	20980.2	20420.5
70°	2576.5	2498.0	2982.5	4057.5	6405.3	11527.5	18499.3	18878.1	19509.4	18315.0
72.5°	1201.2	1184.1	1443.5	1996.3	3262.4	6777.3	14325.8	14598.8	15929.7	15441.7
75°	706.4	716.6	863.4	1044.2	1590.2	3194.1	9507.3	10036.2	11479.7	11128.2
77.5°	528.9	528.9	614.3	726.9	928.2	1235.3	4692.2	5391.8	6712.4	6036.8
80°	389.0	395.9	470.9	546.0	645.0	638.1	1863.2	2184.0	3078.1	2631.1
82.5°	303.7	314.0	365.1	406.1	453.9	385.6	764.4	822.4	1266.0	1006.7
85°	211.6	218.4	286.7	276.4	276.4	215.0	317.4	334.4	501.6	477.8
87.5°	51.2	58.0	139.9	153.6	116.0	64.8	99.0	112.6	180.9	208.2
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°
3914.2	0°	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2	3914.2
3982.4	2.5°	3931.2	3944.9	4002.9	3972.2	3989.2	3917.6	3975.6	3927.8	3968.8	3948.3
4013.1	5°	4040.4	4009.7	4043.8	4020.0	4020.0	4047.3	4088.2	4057.5	4118.9	4091.6
4037.0	7.5°	4084.8	4088.2	4108.7	4112.1	4095.0	4180.3	4183.8	4173.5	4231.5	4217.9
4200.8	10°	4194.0	4197.4	4234.9	4255.4	4238.4	4269.1	4234.9	4207.6	4204.2	4190.6
4330.5	12.5°	4368.0	4402.2	4395.3	4412.4	4415.8	4286.1	4207.6	4074.6	4057.5	4074.6
4521.6	15°	4528.4	4514.8	4521.6	4555.7	4412.4	4204.2	4064.3	3951.7	3958.5	3961.9
4770.7	17.5°	4719.5	4729.8	4740.0	4583.0	4320.3	4074.6	3951.7	3951.7	3917.6	3931.2
4944.7	20°	4937.9	4897.0	4808.2	4586.4	4159.9	3924.4	3886.9	3886.9	3845.9	3818.6
5132.4	22.5°	5108.5	5026.6	4893.6	4480.6	4016.5	3866.4	3774.3	3709.4	3661.6	3607.0
5340.6	25°	5217.7	5173.4	4914.0	4371.4	3910.8	3712.8	3576.3	3477.4	3415.9	3344.3
5504.4	27.5°	5385.0	5299.6	4972.0	4245.2	3794.7	3559.3	3347.7	3194.1	3078.1	3003.0
5753.5	30°	5610.2	5487.3	4931.1	4064.3	3617.3	3293.1	3044.0	2846.0	2713.0	2651.5
5989.0	32.5°	5794.5	5634.1	4897.0	3900.5	3419.3	3023.5	2692.5	2491.1	2416.1	2337.6
6384.8	35°	6146.0	5828.6	4873.1	3808.4	3241.9	2753.9	2405.8	2231.8	2136.2	2020.2
6620.3	37.5°	6415.5	6166.4	4815.1	3617.3	3013.3	2491.1	2187.4	2030.5	1887.1	1764.3
7166.3	40°	6838.7	6637.4	4818.5	3347.7	2743.7	2265.9	2016.8	1853.0	1672.1	1566.3
7975.1	42.5°	7633.8	7101.5	4839.0	3132.7	2440.0	2081.6	1863.2	1668.7	1487.9	1399.1
8896.4	45°	8609.8	7739.6	4712.7	2938.2	2129.4	1907.6	1679.0	1484.4	1368.4	1303.6
10148.8	47.5°	9732.5	8364.1	4542.1	2573.0	1870.1	1723.3	1508.3	1395.7	1310.4	1272.9
11763.0	50°	10988.3	9258.2	4494.3	2238.6	1668.7	1566.3	1426.4	1341.1	1283.1	1238.7
13581.8	52.5°	12605.9	10299.0	4398.7	1894.0	1494.7	1440.1	1395.7	1337.7	1286.5	1249.0
15277.9	55°	14151.7	11452.4	4296.4	1610.7	1371.8	1378.7	1402.5	1351.4	1307.0	1249.0
17178.6	57.5°	15892.1	12629.7	3917.6	1402.5	1279.7	1347.9	1395.7	1337.7	1293.3	1249.0
19123.8	60°	16967.1	13291.8	3177.1	1221.7	1197.8	1289.9	1354.8	1293.3	1245.6	1262.6
20017.9	62.5°	17403.9	12943.7	2395.6	1109.1	1139.8	1211.4	1289.9	1266.0	1231.9	1296.8
20007.6	65°	16659.9	12141.8	1713.1	1013.5	1061.3	1133.0	1231.9	1259.2	1269.5	1395.7
18376.4	67.5°	14824.0	10572.0	1259.2	935.0	979.4	1085.2	1272.9	1317.2	1310.4	1467.4
15421.2	70°	11861.9	8268.5	982.8	870.2	948.7	1122.7	1330.9	1330.9	1283.1	1467.4
11763.0	72.5°	8630.3	5828.6	846.3	795.1	870.2	1030.6	1324.1	1320.6	1259.2	1341.1
7490.5	75°	5224.6	3392.0	747.3	720.0	747.3	883.8	1266.0	1245.6	1160.3	1153.4
3603.6	77.5°	2603.8	1706.3	610.8	638.1	651.8	740.5	1112.5	1143.2	1027.2	999.9
1423.0	80°	1098.8	743.9	508.5	549.4	549.4	624.5	924.8	945.3	853.1	801.9
563.1	82.5°	501.6	426.6	433.4	477.8	447.0	484.6	733.7	757.6	692.7	607.4
238.9	85°	211.6	242.3	331.0	375.4	331.0	314.0	505.1	532.4	450.5	375.4
102.4	87.5°	95.6	133.1	208.2	273.0	167.2	146.7	269.6	279.8	225.2	167.2
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>
3914.2
3910.8
4054.1
4197.4
4190.6
4081.4
4009.7
3934.6
3777.7
3576.3
3357.9
3037.1
2685.7
2334.2
2010.0
1767.7
1576.6
1406.0
1317.2
1266.0
1245.6
1245.6
1245.6
1245.6
1249.0
1279.7
1395.7
1477.6
1436.7
1293.3
1139.8
982.8
784.9
593.8
378.8
157.0
0.0

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