

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: P477899

Luminaire Tested: **IFLD-S-SA6B-827-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477899  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

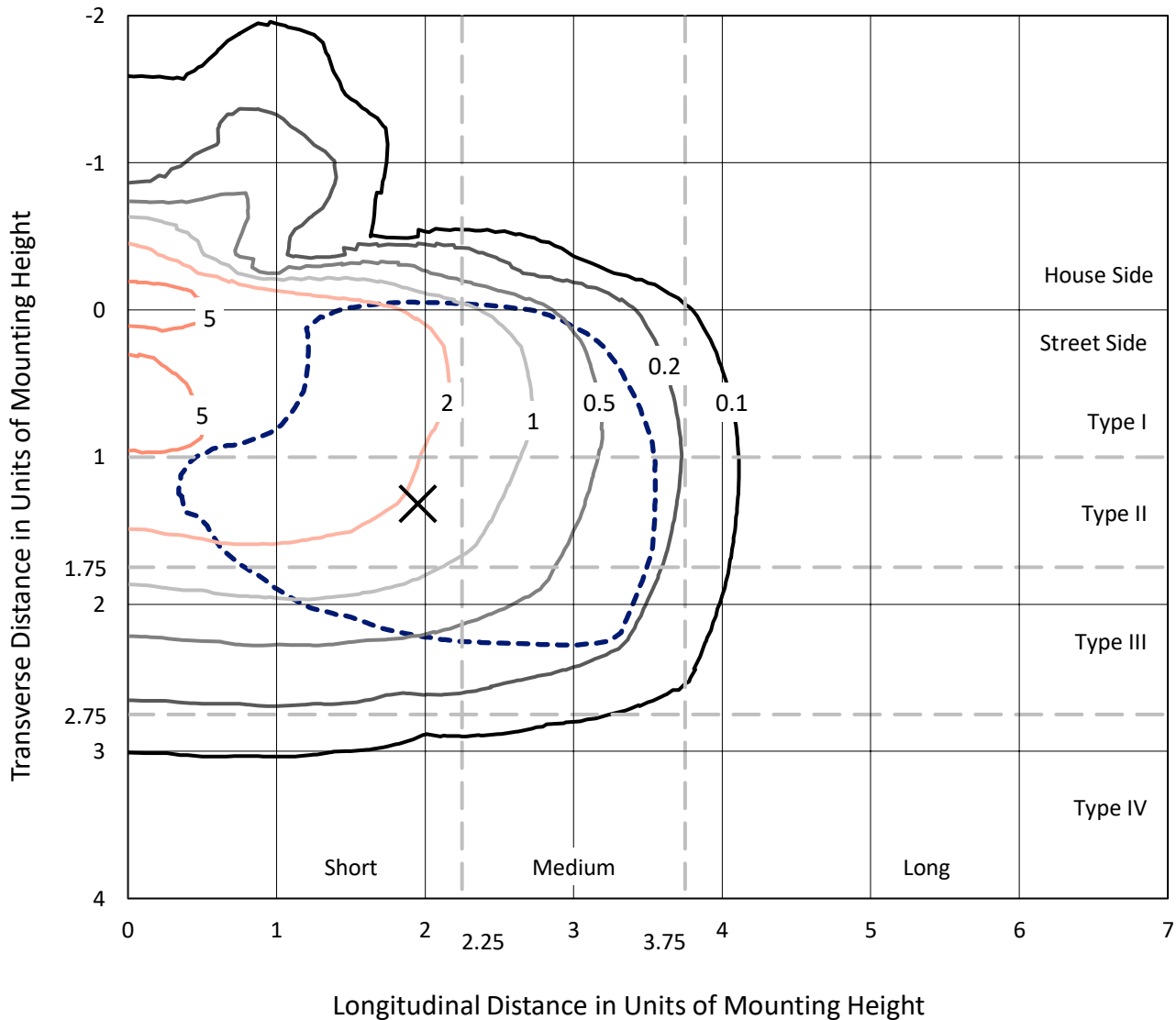
Lumens per Lamp: N/A  
Luminaire Lumens: 24103 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
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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 CATALOG NUMBER: IFLD-S-SA6B-827-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

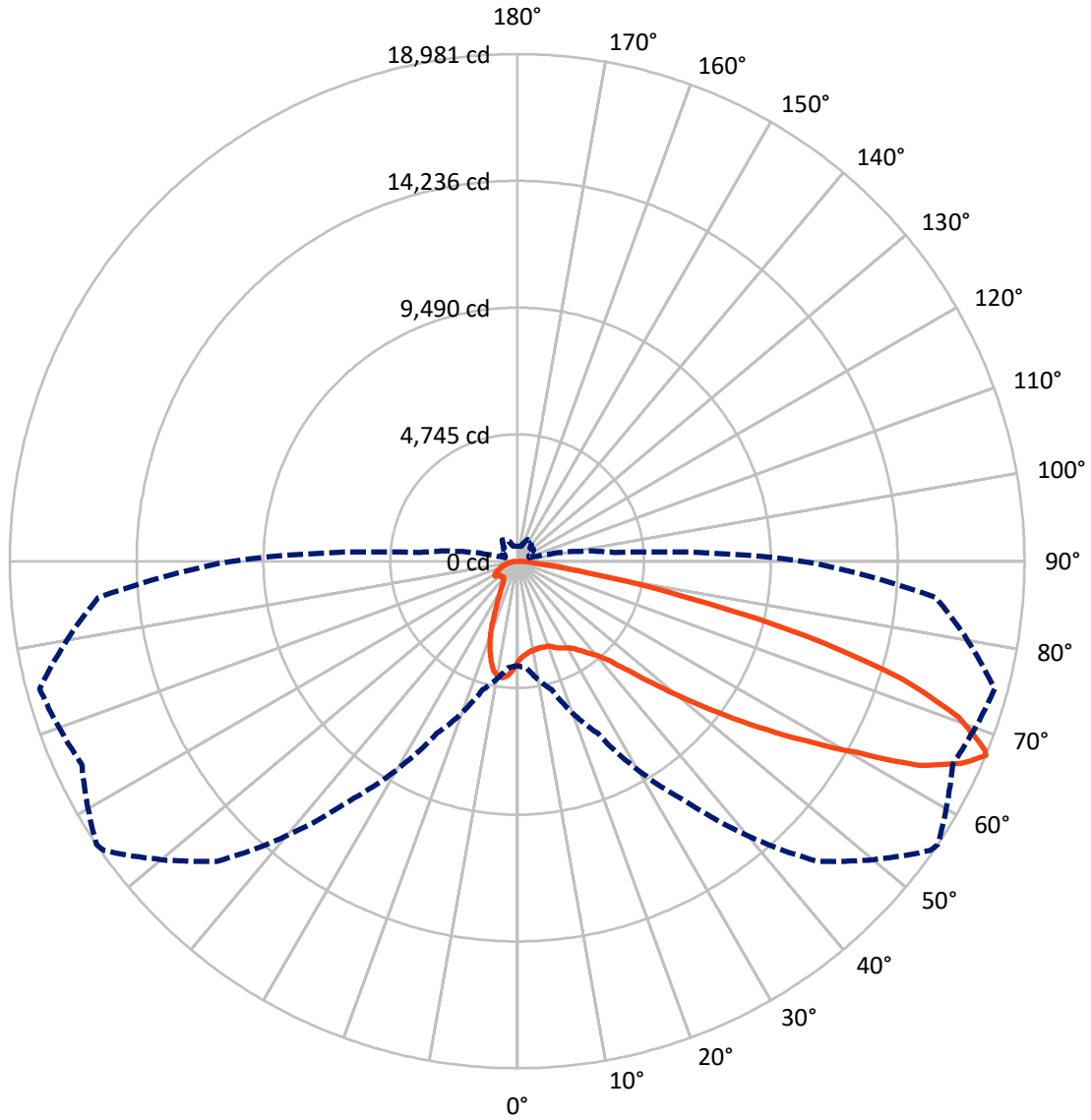
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P477899  
CATALOG NUMBER: IFLD-S-SA6B-827-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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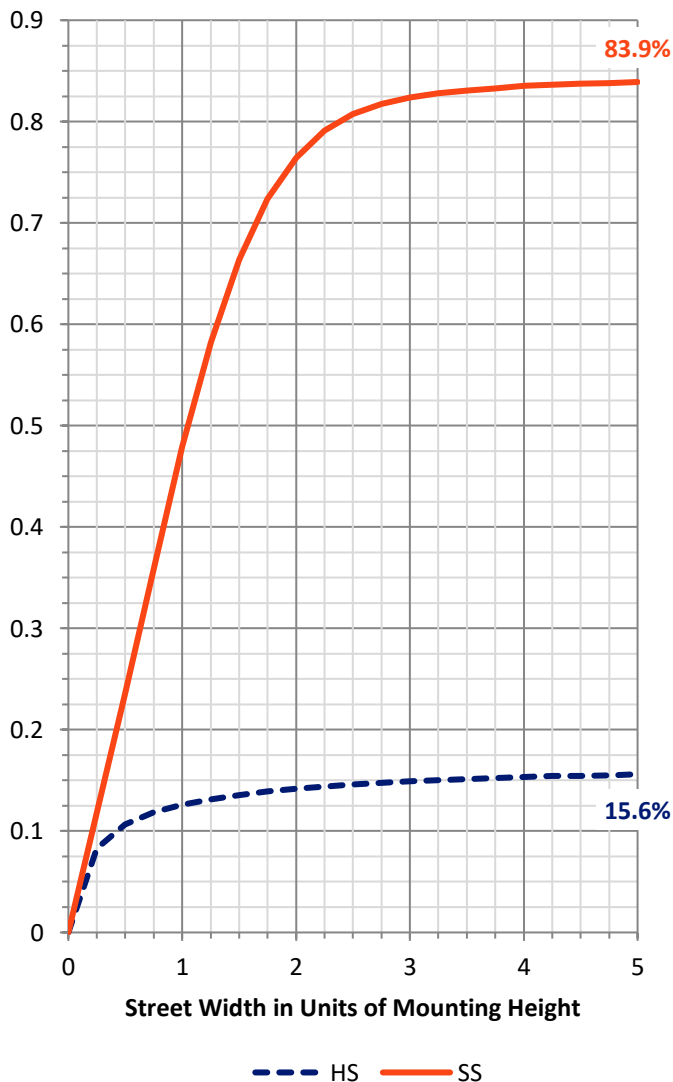
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3815.8	0.0	3815.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	20287.3	0.0	20287.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	24103.0	0.0	24103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.3	1.5
10°-20°	985.7	4.1
20°-30°	1545.8	6.4
30°-40°	2206.7	9.2
40°-50°	3330.5	13.8
50°-60°	5301.6	22.0
60°-70°	6777.7	28.1
70°-80°	3304.6	13.7
80°-90°	289.1	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°	24103.0	100.0
0°-180°	24103.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P477899

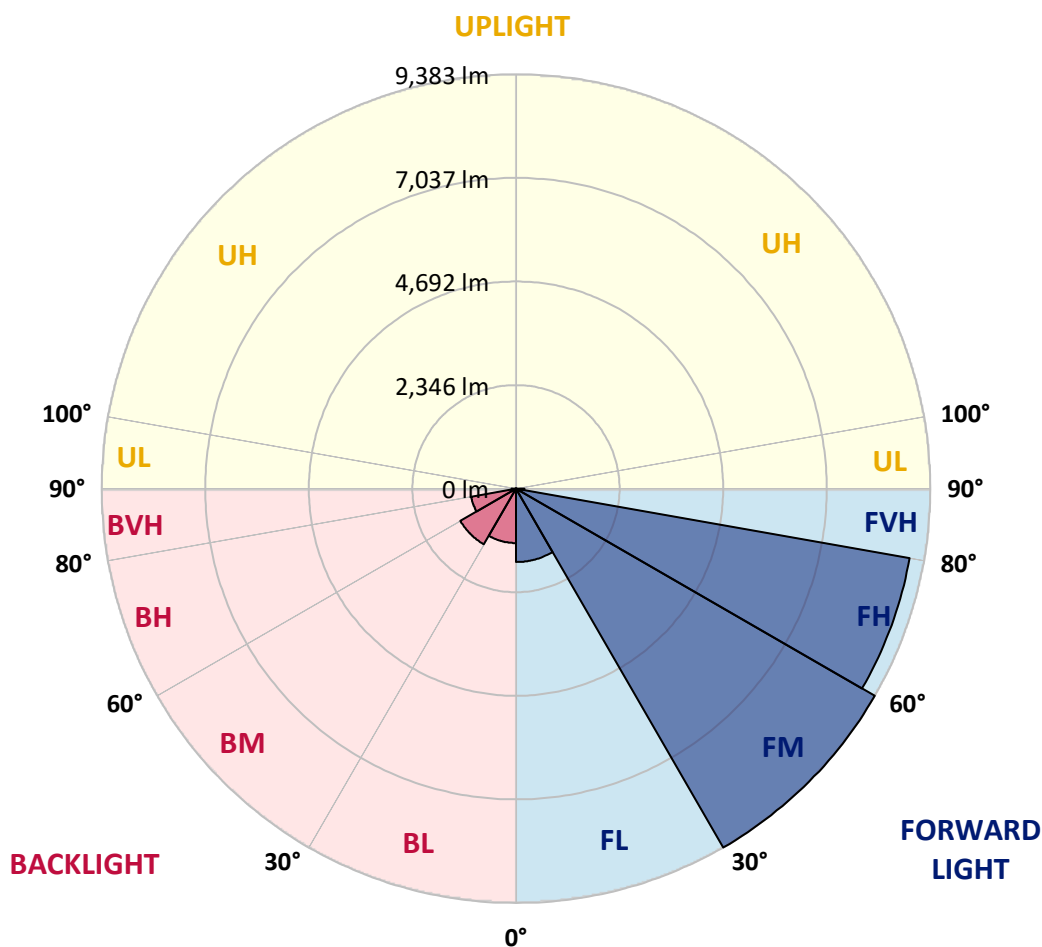
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.0	6.9			
FM (30°-60°)	9383.1	38.9			
FH (60°-80°)	9051.2	37.6			G4/12000
FVH (80°-90°)	192.0	0.8			G2/225
BL (0°-30°)	1231.8	5.1	B3/2500		
BM (30°-60°)	1455.7	6.0	B2/2500		
BH (60°-80°)	1031.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	97.1	0.4			G1/100
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





REPORT NUMBER: P477899  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4
2.5°	3445.1	3431.0	3448.0	3431.0	3507.3	3552.5	3566.7	3586.4	3657.1	3724.9
5°	3301.0	3238.8	3306.7	3329.3	3334.9	3411.2	3490.4	3504.5	3541.2	3651.4
7.5°	3060.8	3131.4	3106.0	3173.8	3244.5	3320.8	3450.8	3414.0	3549.7	3654.3
10°	3009.9	3015.6	3043.8	3069.3	3131.4	3230.3	3411.2	3388.6	3527.1	3750.4
12.5°	3060.8	3060.8	3052.3	3032.5	3103.2	3199.3	3343.4	3354.7	3572.3	3778.6
15°	3238.8	3272.7	3182.3	3196.4	3168.2	3199.3	3326.4	3351.9	3589.3	3801.2
17.5°	3674.1	3662.8	3555.4	3405.6	3281.2	3261.4	3349.0	3377.3	3572.3	3866.2
20°	4098.0	4075.4	3888.8	3733.4	3487.5	3371.7	3385.8	3388.6	3600.6	3908.6
22.5°	4570.0	4629.3	4425.8	4109.3	3804.1	3515.8	3459.3	3504.5	3665.6	3931.2
25°	5310.4	5183.2	5008.0	4592.6	4100.8	3739.1	3580.8	3603.4	3727.8	3987.8
27.5°	5844.6	5793.7	5519.6	5183.2	4516.3	3914.3	3645.8	3688.2	3840.8	3984.9
30°	6358.9	6358.9	6192.2	5689.1	4954.3	4208.2	3784.3	3764.5	3787.1	3979.3
32.5°	6960.9	6879.0	6638.7	6305.2	5505.4	4476.7	3894.5	3900.2	3900.2	4083.9
35°	7277.5	7410.3	7249.2	6706.6	5926.5	4923.2	4160.2	4117.8	4086.7	4199.7
37.5°	7741.0	7820.1	7650.5	7331.2	6449.4	5285.0	4394.7	4360.8	4179.9	4290.2
40°	8020.7	8006.6	8001.0	7854.0	7141.8	5711.7	4739.5	4651.9	4408.9	4609.5
42.5°	8179.0	8150.8	8498.4	8407.9	7794.7	6339.2	5171.9	5123.9	4855.4	5177.6
45°	8357.1	8566.2	8851.7	9106.0	8554.9	7220.9	5903.9	5836.1	5595.9	6005.7
47.5°	8512.5	8769.7	9134.3	9405.6	9241.7	8179.0	6808.3	6825.3	6667.0	7088.1
50°	8772.5	8798.0	9292.5	9840.8	9968.0	9063.6	8023.6	7995.3	7924.7	8515.3
52.5°	8693.4	8769.7	9394.3	10095.2	10304.3	9999.1	9329.3	9414.1	9320.8	10064.1
55°	7404.6	7633.6	9332.1	10363.7	11101.3	11056.1	11008.0	10951.5	10945.9	11805.0
57.5°	6819.6	7006.1	8221.4	10660.4	11954.8	12288.3	12599.2	12661.4	12658.5	13695.8
60°	6435.3	6627.4	7772.0	10499.3	12681.1	13902.1	14498.4	14506.9	14489.9	15716.5
62.5°	5683.5	5870.0	6994.8	9617.6	12881.8	15391.5	16719.8	16830.0	16052.8	17457.4
65°	4779.1	4931.7	5923.7	8269.5	12347.7	16338.2	18390.1	18260.1	17369.8	18452.2
67°	3908.6	4010.4	4976.9	7099.4	10951.5	15883.2	18873.3	18980.7	17977.4	18494.6
67.5°	3659.9	3753.2	4666.1	6700.9	10420.2	15538.4	18890.3	18873.3	17988.7	18503.1
70°	2540.8	2580.3	3179.5	4609.5	7676.0	13127.7	17511.1	17550.7	17234.2	17499.8
72.5°	1684.4	1743.8	2125.3	2905.3	4524.7	9552.5	14636.9	15060.8	14860.1	14348.6
75°	1085.3	1119.2	1390.5	1729.6	2227.0	5440.4	10813.0	11095.7	10635.0	8874.3
77.5°	607.6	644.4	839.4	1051.3	1085.3	2263.8	6073.5	6423.9	5443.3	3770.1
80°	378.7	426.8	633.1	624.6	517.2	830.9	2504.0	2682.1	2176.2	1297.2
82.5°	285.4	322.2	488.9	438.1	291.1	370.2	938.3	1006.1	797.0	500.2
85°	195.0	245.9	353.3	271.3	152.6	178.1	373.1	401.3	364.6	243.1
87.5°	70.7	104.6	183.7	135.7	67.8	53.7	121.5	135.7	130.0	110.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477899  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3750.4	0°	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4	3750.4
3784.3	2.5°	3838.0	3877.5	3897.3	4013.2	4061.2	4052.8	4064.1	4081.0	4098.0	4120.6
3832.3	5°	3869.1	3990.6	4055.6	4191.3	4281.7	4242.1	4293.0	4278.9	4259.1	4256.3
3919.9	7.5°	3970.8	4126.2	4321.3	4358.0	4397.6	4298.6	4213.9	4098.0	4069.7	3970.8
3993.4	10°	4151.7	4278.9	4516.3	4530.4	4355.2	4100.8	3911.5	3671.2	3668.4	3524.3
4106.5	12.5°	4324.1	4468.2	4660.4	4578.4	4160.2	3812.5	3504.5	3241.6	3131.4	3057.9
4174.3	15°	4431.5	4668.9	4770.6	4417.3	3818.2	3349.0	2950.6	2667.9	2554.9	2501.2
4259.1	17.5°	4530.4	4861.1	4815.8	4134.7	3397.1	2871.4	2396.6	2150.7	2119.6	2080.1
4394.7	20°	4666.1	4931.7	4654.7	3767.3	2919.5	2255.3	1952.9	1834.2	1862.5	1879.4
4408.9	22.5°	4793.2	4968.5	4451.3	3366.0	2306.2	1786.2	1636.4	1661.8	1704.2	1760.7
4442.8	25°	4849.8	5027.8	4177.1	2812.1	1755.1	1503.5	1469.6	1512.0	1582.7	1585.5
4490.8	27.5°	4886.5	4985.4	3846.5	2272.3	1387.7	1314.2	1365.1	1396.1	1404.6	1438.5
4592.6	30°	4951.5	4897.8	3428.2	1625.1	1164.4	1167.2	1232.2	1232.2	1232.2	1257.7
4694.3	32.5°	5064.5	4838.5	2939.2	1187.0	1003.3	1093.7	1076.8	1071.1	1059.8	1028.7
4824.3	35°	5135.2	4677.4	2320.3	878.9	901.6	1003.3	997.6	910.0	763.1	689.6
5155.0	37.5°	5282.2	4595.4	1707.0	678.3	842.2	958.1	927.0	715.0	553.9	483.3
5564.8	40°	5598.7	4541.7	1181.4	593.5	802.6	935.5	828.1	610.5	423.9	299.6
6197.9	42.5°	5985.9	4544.5	802.6	559.6	805.5	983.5	797.0	522.8	299.6	240.2
7042.9	45°	6505.9	4502.1	551.1	559.6	856.3	1062.7	816.8	474.8	291.1	305.2
8102.7	47.5°	7065.5	4538.9	409.8	508.7	864.8	1065.5	746.1	466.3	279.8	353.3
9255.8	50°	7718.3	4575.6	339.1	469.1	867.6	1031.6	686.8	455.0	291.1	373.1
10578.5	52.5°	8391.0	4691.5	288.3	443.7	901.6	1017.4	686.8	472.0	291.1	325.0
12262.9	55°	9394.3	4988.2	415.5	553.9	1025.9	1110.7	845.0	661.3	407.0	418.3
13876.6	57.5°	10502.2	5293.5	463.5	582.2	1054.2	1000.5	910.0	729.2	429.6	432.4
15131.5	60°	11231.3	5304.8	460.7	568.1	986.3	864.8	890.3	768.7	438.1	370.2
15908.7	62.5°	11522.4	4960.0	480.5	568.1	918.5	808.3	912.9	828.1	452.2	463.5
16129.1	65°	11191.7	4247.8	463.5	508.7	808.3	723.5	918.5	839.4	494.6	466.3
15733.4	67°	10674.5	3659.9	472.0	483.3	751.8	686.8	966.6	881.8	573.7	559.6
15527.1	67.5°	10527.6	3504.5	469.1	469.1	732.0	675.5	977.9	881.8	585.0	579.4
13704.2	70°	9278.4	2840.3	480.5	463.5	647.2	641.5	1040.0	929.8	672.6	678.3
10066.9	72.5°	7062.7	2153.6	477.6	463.5	562.4	613.3	1048.5	960.9	732.0	678.3
5638.3	75°	4013.2	1288.7	421.1	404.1	443.7	534.2	980.7	915.7	712.2	607.6
2252.5	77.5°	1659.0	664.2	387.2	364.6	367.4	435.2	816.8	853.5	678.3	517.2
751.8	80°	618.9	398.5	310.9	291.1	282.6	319.4	582.2	681.1	579.4	423.9
330.7	82.5°	322.2	248.7	212.0	212.0	192.2	203.5	313.7	452.2	438.1	291.1
132.8	85°	163.9	141.3	121.5	118.7	107.4	96.1	158.3	268.5	251.5	161.1
59.4	87.5°	87.6	79.1	50.9	48.0	39.6	25.4	28.3	53.7	87.6	70.7
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°
3750.4
4143.2
4281.7
4004.7
3518.6
3041.0
2489.9
2099.9
1859.6
1729.6
1613.8
1469.6
1285.9
1011.8
723.5
480.5
291.1
234.6
310.9
392.8
432.4
333.5
440.9
418.3
381.5
469.1
457.8
551.1
568.1
627.4
602.0
542.6
488.9
387.2
228.9
132.8
50.9
0.0

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