

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: P477242

Luminaire Tested: **IFLD-M-SA4C-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477242  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

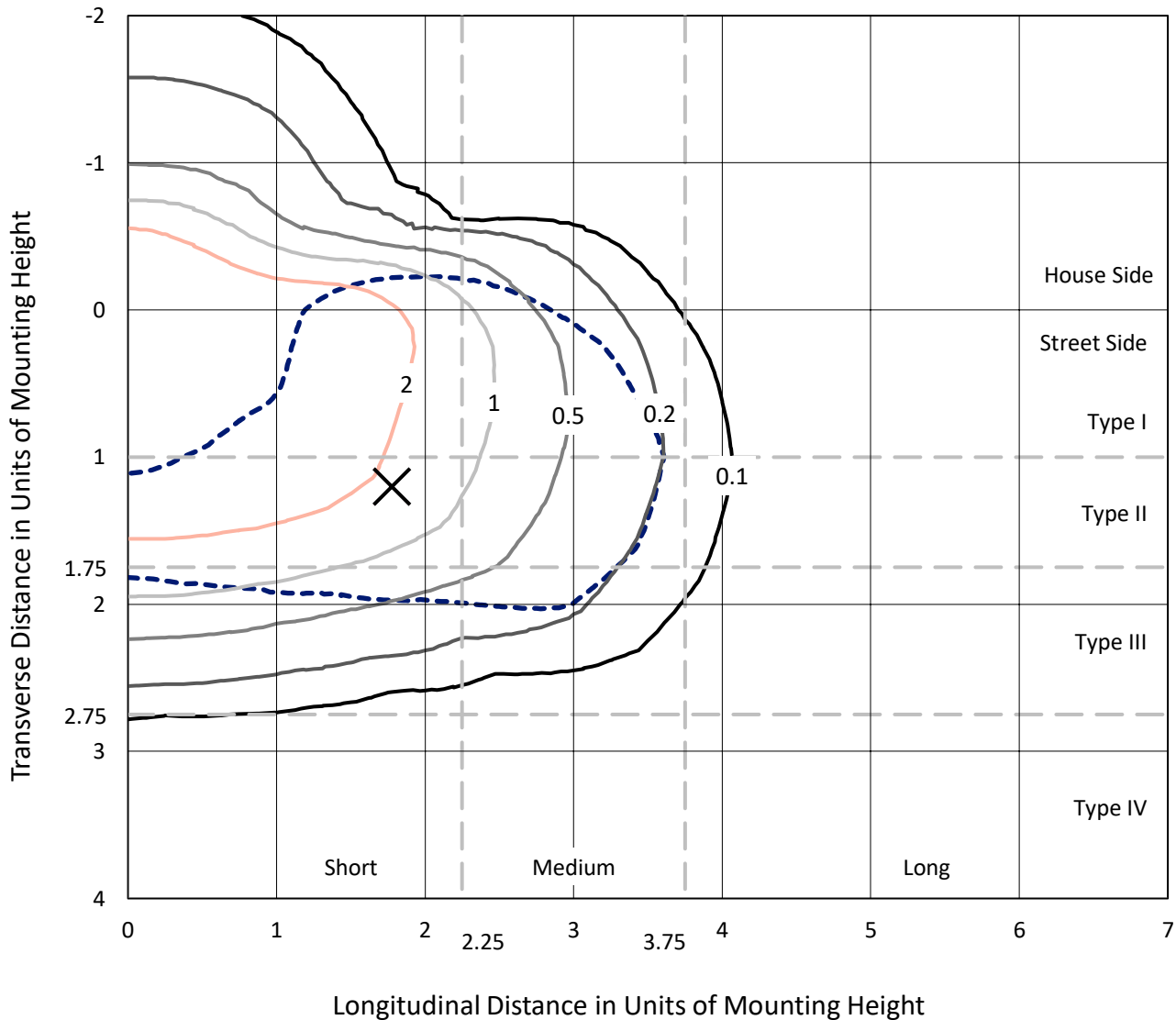
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21330.6 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
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

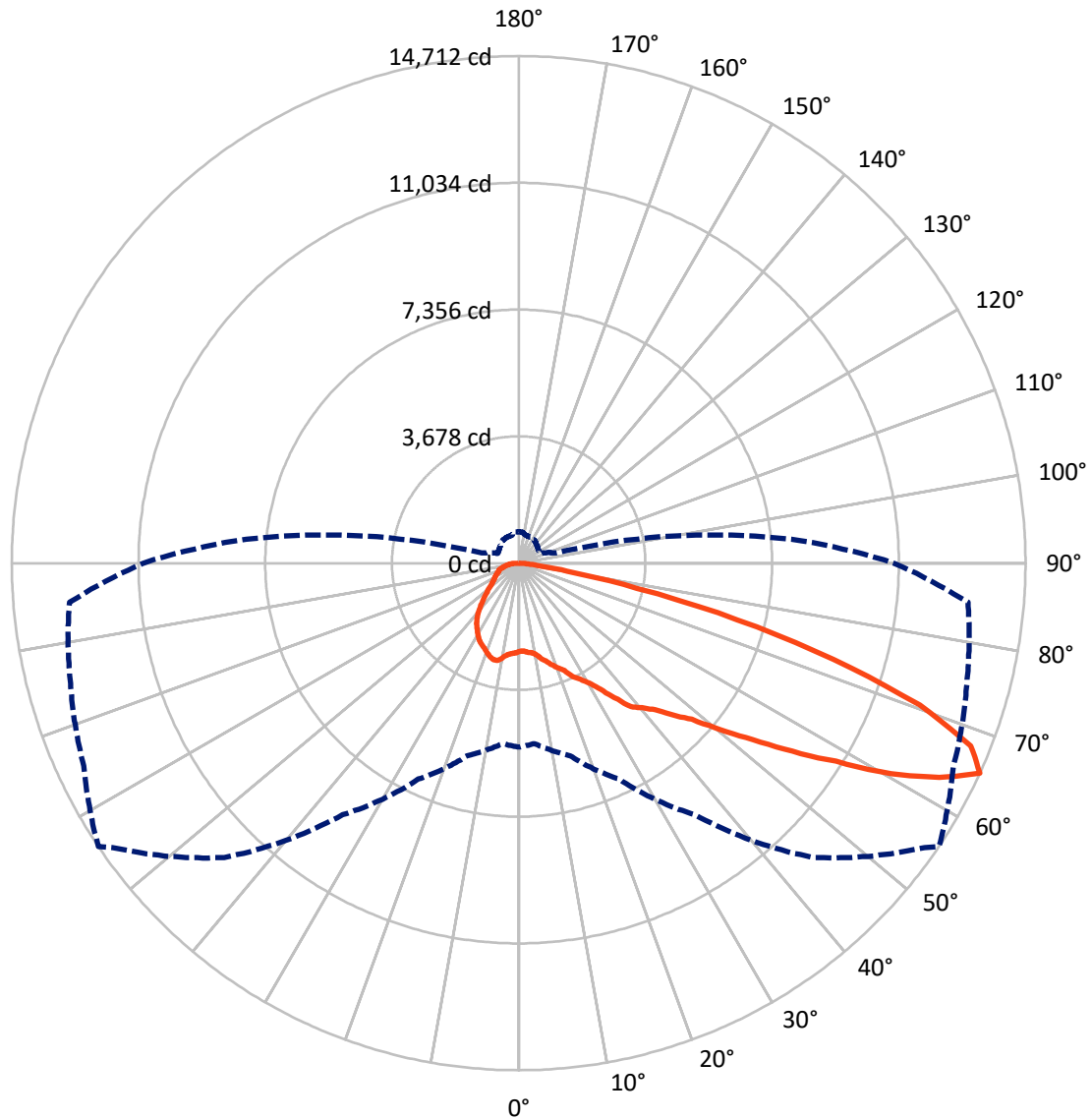
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P477242  
CATALOG NUMBER: IFLD-M-SA4C-722-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4C-722-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4783.8	0.0	4783.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	16546.9	0.0	16546.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	21330.6	0.0	21330.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	1.2
10°-20°	823.8	3.9
20°-30°	1466.9	6.9
30°-40°	2196.7	10.3
40°-50°	3254.6	15.3
50°-60°	5014.9	23.5
60°-70°	5677.5	26.6
70°-80°	2356.2	11.0
80°-90°	286.3	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°	21330.6	100.0
0°-180°	21330.6	100.0

**Coefficient of Utilization**

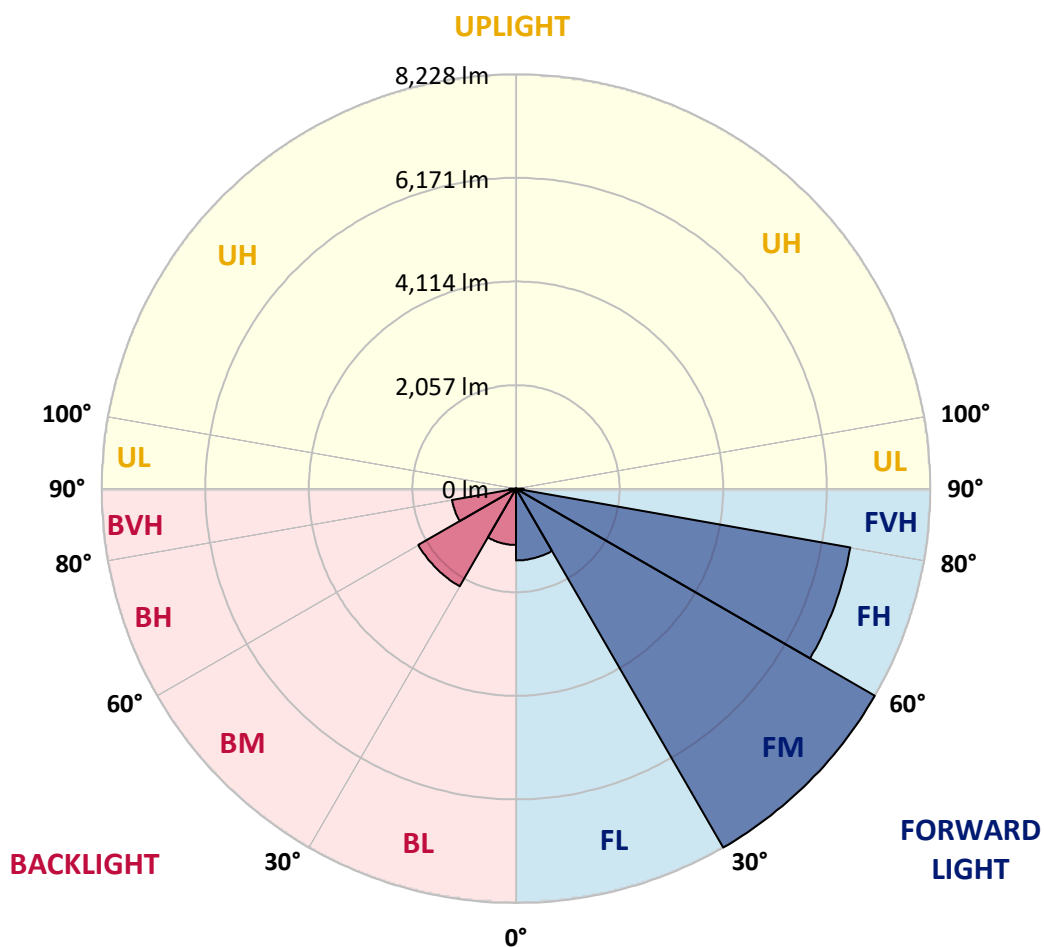


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.5	6.7			
FM (30°-60°)	8228.4	38.6			
FH (60°-80°)	6741.9	31.6			G3/7500
FVH (80°-90°)	151.0	0.7			G2/225
BL (0°-30°)	1119.0	5.2	B3/2500		
BM (30°-60°)	2237.8	10.5	B2/2500		
BH (60°-80°)	1291.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	135.3	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-G3**  
 Type III Short





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 CATALOG NUMBER: IFLD-M-SA4C-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3
2.5°	2493.3	2506.7	2497.8	2524.6	2546.9	2546.9	2564.8	2551.4	2569.2	2593.8
5°	2575.9	2522.3	2551.4	2564.8	2558.1	2569.2	2551.4	2596.0	2567.0	2613.9
7.5°	2596.0	2616.1	2640.6	2618.3	2638.4	2627.3	2629.5	2622.8	2607.2	2645.1
10°	2743.3	2714.3	2770.1	2736.6	2732.2	2727.7	2718.8	2685.3	2723.2	2725.5
12.5°	2913.0	2886.2	2883.9	2857.2	2892.9	2828.1	2841.5	2823.7	2830.4	2839.3
15°	3035.7	3024.6	3075.9	3044.7	2997.8	2968.8	3000.0	2950.9	2975.5	2971.0
17.5°	3279.0	3276.8	3238.9	3187.5	3160.7	3118.3	3111.6	3091.5	3109.4	3100.5
20°	3448.7	3473.2	3479.9	3419.7	3317.0	3270.1	3259.0	3243.3	3263.4	3256.7
22.5°	3707.6	3669.7	3698.7	3593.8	3555.8	3444.2	3404.0	3381.7	3477.7	3453.1
25°	3872.8	3913.0	3884.0	3848.2	3763.4	3625.0	3596.0	3645.1	3683.1	3656.3
27.5°	4245.6	4205.4	4178.6	4071.5	4015.7	3870.6	3837.1	3819.2	3828.2	3843.8
30°	4529.1	4551.4	4491.1	4415.2	4274.6	4127.3	4049.1	4033.5	4002.3	3975.5
32.5°	4933.1	4899.6	4863.9	4814.8	4694.2	4500.0	4424.1	4366.1	4272.4	4147.4
35°	5127.3	5223.3	5196.5	5064.8	4973.2	4899.6	4877.3	4788.0	4709.9	4513.4
37.5°	5450.9	5491.1	5453.2	5410.8	5368.3	5290.2	5263.4	5288.0	5134.0	4810.3
40°	5660.8	5745.6	5823.7	5705.4	5696.5	5712.1	5546.9	5517.9	5200.9	5031.3
42.5°	6089.3	6125.0	6140.7	6136.2	6187.5	6187.5	5872.8	5810.3	5584.9	5446.5
45°	6656.3	6685.3	6741.1	6781.3	6723.3	6752.3	6303.6	6279.1	6078.2	6051.4
47.5°	7147.4	7216.6	7341.6	7459.9	7535.8	7437.6	6946.5	6772.4	6721.0	6881.7
50°	7575.9	7493.4	7785.8	7906.3	8238.9	8401.8	7656.3	7587.1	7504.5	7812.6
52.5°	7618.4	7730.0	8142.9	8384.0	9069.3	9370.6	8526.8	8497.8	8397.4	8752.3
55°	7921.9	7908.5	8323.7	8846.0	9660.8	10167.5	9660.8	9642.9	9424.2	9761.2
57.5°	7870.6	8006.8	8334.9	9064.8	10194.3	11022.4	10975.5	10852.8	10547.0	10821.5
60°	7696.5	7732.2	8131.8	9058.1	10504.5	11899.6	12395.2	12419.7	11794.7	12013.5
62.5°	6709.9	6792.5	7299.2	8346.0	10283.6	12504.6	13781.3	13694.3	13194.3	12944.3
65°	5337.1	5254.5	5781.3	6913.0	8908.5	12076.0	14388.5	14712.2	13926.4	13468.8
67.5°	3272.3	3252.3	3759.0	4756.7	6665.2	10276.9	13904.1	14156.4	13723.3	13357.2
70°	1685.3	1633.9	1950.9	2654.0	4189.8	7540.2	12100.5	12348.3	12761.3	11980.0
72.5°	785.7	774.6	944.2	1305.8	2133.9	4433.1	9370.6	9549.2	10419.7	10100.5
75°	462.1	468.8	564.7	683.0	1040.2	2089.3	6218.8	6564.8	7509.0	7279.1
77.5°	346.0	346.0	401.8	475.4	607.1	808.0	3069.2	3526.8	4390.7	3948.7
80°	254.5	258.9	308.0	357.1	421.9	417.4	1218.8	1428.6	2013.4	1721.0
82.5°	198.7	205.4	238.8	265.6	296.9	252.2	500.0	538.0	828.1	658.5
85°	138.4	142.9	187.5	180.8	180.8	140.6	207.6	218.8	328.1	312.5
87.5°	33.5	37.9	91.5	100.4	75.9	42.4	64.7	73.7	118.3	136.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477242  
 CATALOG NUMBER: IFLD-M-SA4C-722-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2560.3	0°	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3
2604.9	2.5°	2571.4	2580.4	2618.3	2598.2	2609.4	2562.5	2600.5	2569.2	2596.0	2582.6
2625.0	5°	2642.9	2622.8	2645.1	2629.5	2629.5	2647.3	2674.1	2654.0	2694.2	2676.4
2640.6	7.5°	2671.9	2674.1	2687.5	2689.8	2678.6	2734.4	2736.6	2729.9	2767.9	2758.9
2747.8	10°	2743.3	2745.6	2770.1	2783.5	2772.3	2792.4	2770.1	2752.3	2750.0	2741.1
2832.6	12.5°	2857.2	2879.5	2875.0	2886.2	2888.4	2803.6	2752.3	2665.2	2654.0	2665.2
2957.6	15°	2962.1	2953.1	2957.6	2979.9	2886.2	2750.0	2658.5	2584.8	2589.3	2591.5
3120.6	17.5°	3087.1	3093.8	3100.5	2997.8	2825.9	2665.2	2584.8	2584.8	2562.5	2571.4
3234.4	20°	3229.9	3203.1	3145.1	3000.0	2721.0	2567.0	2542.4	2542.4	2515.6	2497.8
3357.2	22.5°	3341.5	3288.0	3200.9	2930.8	2627.3	2529.0	2468.8	2426.4	2395.1	2359.4
3493.3	25°	3413.0	3384.0	3214.3	2859.4	2558.1	2428.6	2339.3	2274.6	2234.4	2187.5
3600.5	27.5°	3522.3	3466.5	3252.3	2776.8	2482.2	2328.1	2189.7	2089.3	2013.4	1964.3
3763.4	30°	3669.7	3589.3	3225.5	2658.5	2366.1	2154.0	1991.1	1861.6	1774.6	1734.4
3917.4	32.5°	3790.2	3685.3	3203.1	2551.4	2236.6	1977.7	1761.2	1629.5	1580.4	1529.0
4176.4	35°	4020.1	3812.5	3187.5	2491.1	2120.6	1801.4	1573.7	1459.8	1397.3	1321.4
4330.4	37.5°	4196.5	4033.5	3149.6	2366.1	1971.0	1629.5	1430.8	1328.1	1234.4	1154.0
4687.5	40°	4473.2	4341.5	3151.8	2189.7	1794.7	1482.2	1319.2	1212.1	1093.8	1024.6
5216.6	42.5°	4993.3	4645.1	3165.2	2049.1	1596.0	1361.6	1218.8	1091.5	973.2	915.2
5819.2	45°	5631.7	5062.5	3082.6	1921.9	1392.9	1247.8	1098.2	971.0	895.1	852.7
6638.4	47.5°	6366.1	5471.0	2971.0	1683.0	1223.2	1127.2	986.6	913.0	857.1	832.6
7694.3	50°	7187.6	6055.8	2939.8	1464.3	1091.5	1024.6	933.0	877.2	839.3	810.3
8884.0	52.5°	8245.6	6736.7	2877.3	1238.8	977.7	942.0	913.0	875.0	841.5	817.0
9993.4	55°	9256.8	7491.1	2810.3	1053.6	897.3	901.8	917.4	883.9	854.9	817.0
11236.7	57.5°	10395.2	8261.2	2562.5	917.4	837.1	881.7	913.0	875.0	846.0	817.0
12509.0	60°	11098.3	8694.3	2078.1	799.1	783.5	843.8	886.2	846.0	814.7	825.9
13093.8	62.5°	11384.0	8466.6	1567.0	725.5	745.5	792.4	843.8	828.1	805.8	848.2
13087.1	65°	10897.4	7942.0	1120.5	663.0	694.2	741.1	805.8	823.7	830.4	913.0
12020.2	67.5°	9696.5	6915.2	823.7	611.6	640.6	709.8	832.6	861.6	857.1	959.8
10087.1	70°	7759.0	5408.5	642.9	569.2	620.5	734.4	870.5	870.5	839.3	959.8
7694.3	72.5°	5645.1	3812.5	553.6	520.1	569.2	674.1	866.1	863.8	823.7	877.2
4899.6	75°	3417.4	2218.8	488.8	471.0	488.8	578.1	828.1	814.7	758.9	754.5
2357.2	77.5°	1703.1	1116.1	399.6	417.4	426.3	484.4	727.7	747.8	671.9	654.0
930.8	80°	718.8	486.6	332.6	359.4	359.4	408.5	604.9	618.3	558.0	524.6
368.3	82.5°	328.1	279.0	283.5	312.5	292.4	317.0	479.9	495.5	453.1	397.3
156.3	85°	138.4	158.5	216.5	245.5	216.5	205.4	330.4	348.2	294.6	245.5
67.0	87.5°	62.5	87.1	136.2	178.6	109.4	96.0	176.3	183.0	147.3	109.4
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°
2560.3
2558.1
2651.8
2745.6
2741.1
2669.7
2622.8
2573.7
2471.0
2339.3
2196.4
1986.6
1756.7
1526.8
1314.7
1156.3
1031.3
919.6
861.6
828.1
814.7
814.7
814.7
814.7
817.0
837.1
913.0
966.5
939.7
846.0
745.5
642.9
513.4
388.4
247.8
102.7
0.0

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