

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: P477339

Luminaire Tested: **IFLD-S-SA3C-735-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477339  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

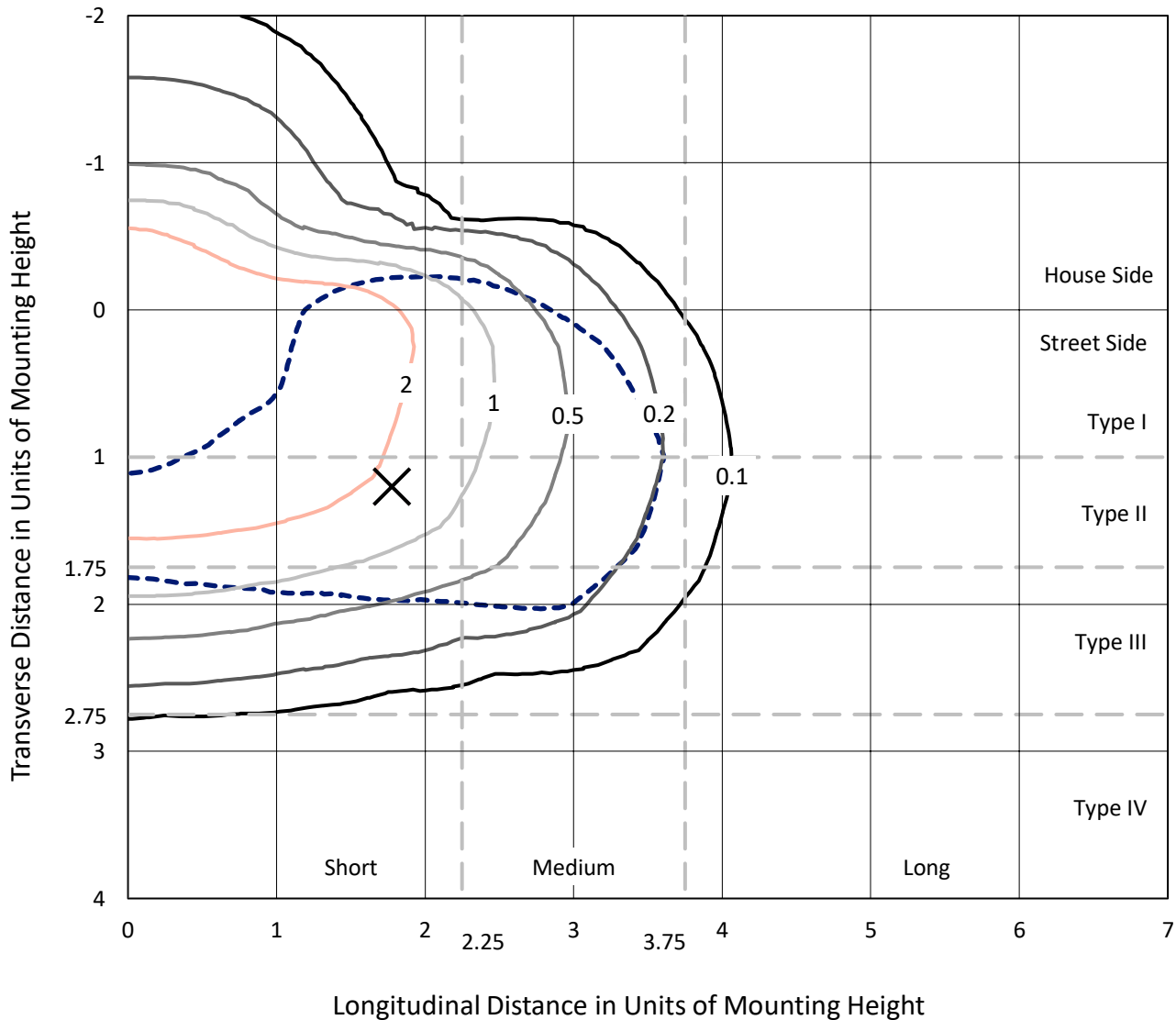
Lumens per Lamp: N/A  
Luminaire Lumens: 21278.7 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

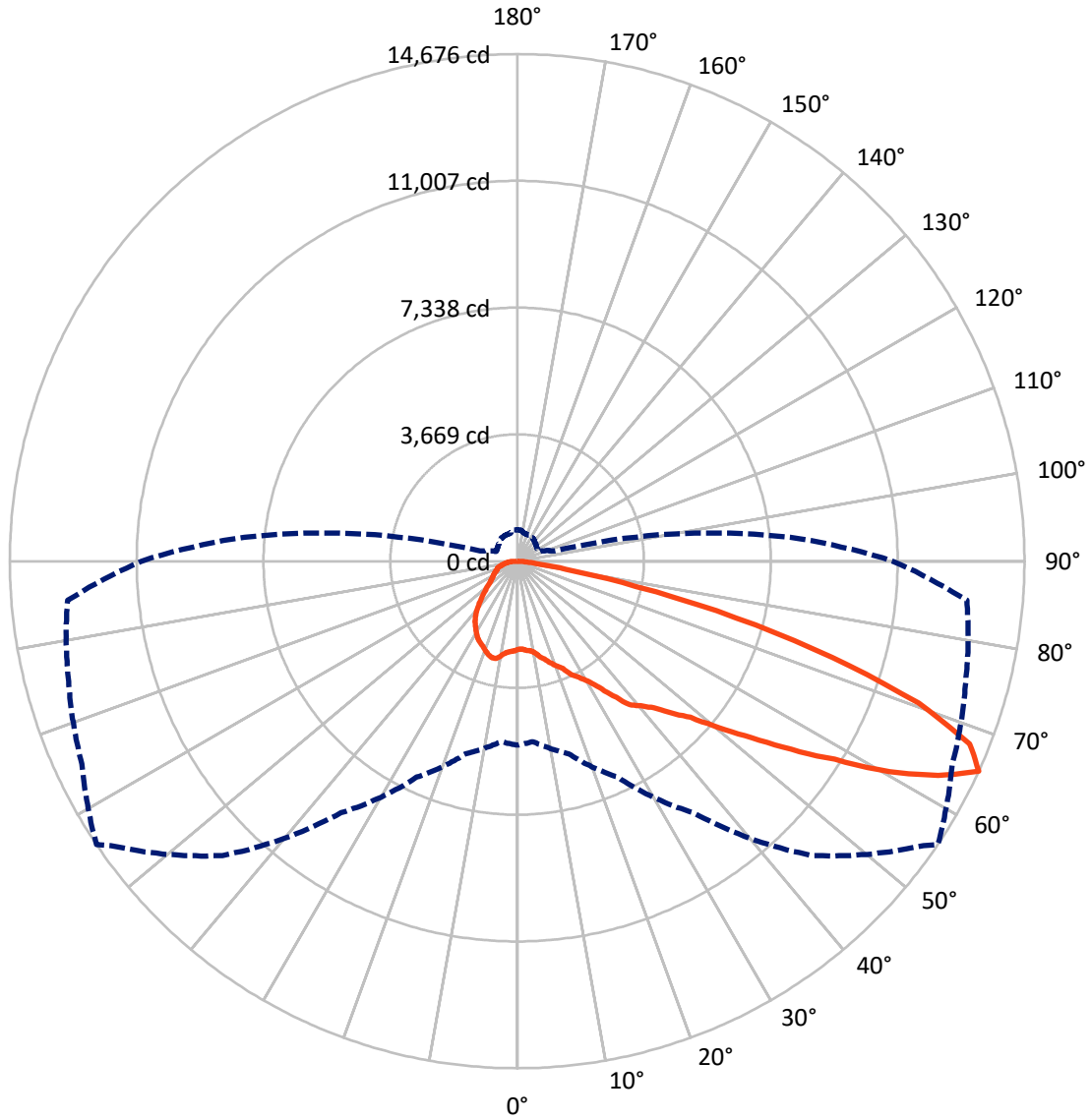
✕ Max cd  
 - - - 1/2 Max cd



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

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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	4772.1	0.0	4772.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	16506.6	0.0	16506.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	21278.7	0.0	21278.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.1	1.2
10°-20°	821.8	3.9
20°-30°	1463.3	6.9
30°-40°	2191.3	10.3
40°-50°	3246.7	15.3
50°-60°	5002.7	23.5
60°-70°	5663.7	26.6
70°-80°	2350.5	11.0
80°-90°	285.6	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°	21278.7	100.0
0°-180°	21278.7	100.0

**Coefficient of Utilization**

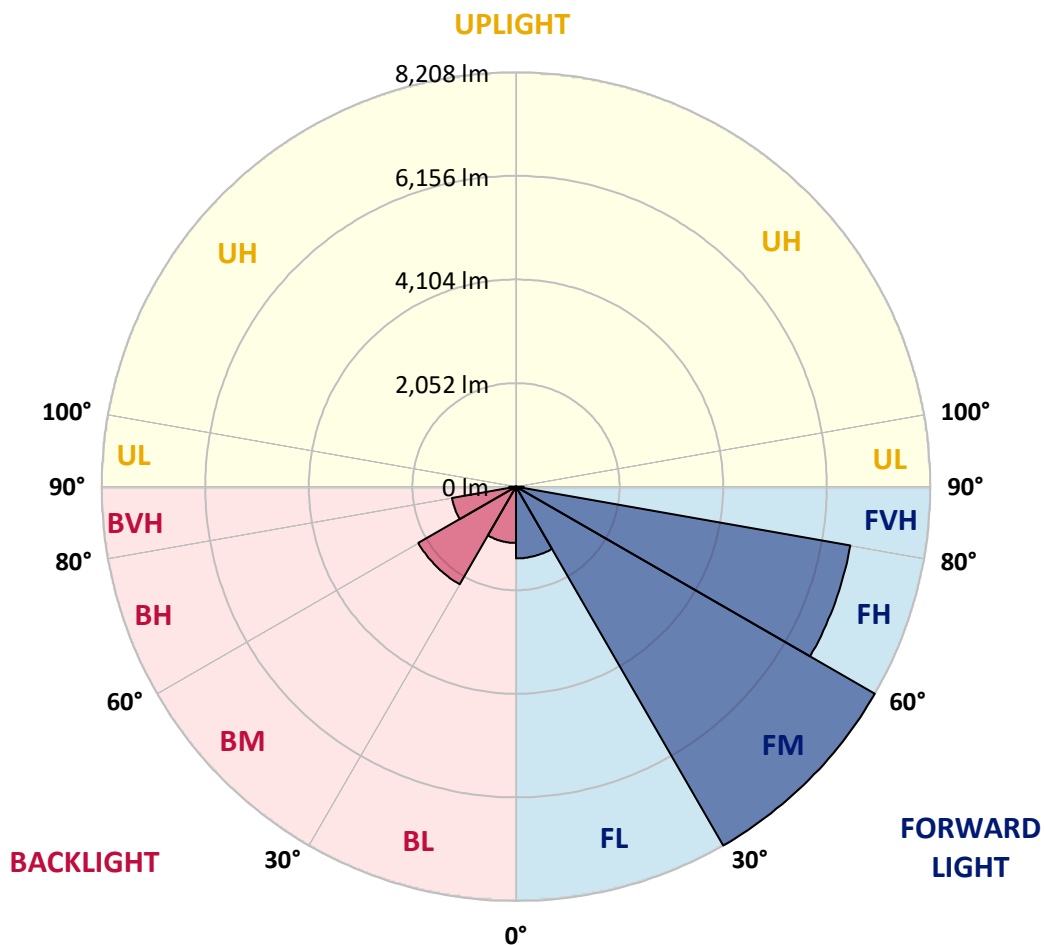


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.0	6.7			
FM (30°-60°)	8208.4	38.6			
FH (60°-80°)	6725.5	31.6			G3/7500
FVH (80°-90°)	150.6	0.7			G2/225
BL (0°-30°)	1116.2	5.2	B3/2500		
BM (30°-60°)	2232.3	10.5	B2/2500		
BH (60°-80°)	1288.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	134.9	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1
2.5°	2487.3	2500.6	2491.7	2518.4	2540.7	2540.7	2558.5	2545.1	2563.0	2587.5
5°	2569.6	2516.2	2545.1	2558.5	2551.8	2563.0	2545.1	2589.7	2560.7	2607.5
7.5°	2589.7	2609.7	2634.2	2611.9	2632.0	2620.9	2623.1	2616.4	2600.8	2638.7
10°	2736.6	2707.7	2763.4	2730.0	2725.5	2721.1	2712.1	2678.7	2716.6	2718.8
12.5°	2905.9	2879.2	2876.9	2850.2	2885.8	2821.3	2834.6	2816.8	2823.5	2832.4
15°	3028.3	3017.2	3068.4	3037.3	2990.5	2961.5	2992.7	2943.7	2968.2	2963.8
17.5°	3271.1	3268.8	3231.0	3179.8	3153.0	3110.7	3104.1	3084.0	3101.8	3092.9
20°	3440.3	3464.8	3471.5	3411.3	3308.9	3262.2	3251.0	3235.4	3255.5	3248.8
22.5°	3698.6	3660.7	3689.7	3585.0	3547.2	3435.8	3395.8	3373.5	3469.2	3444.7
25°	3863.4	3903.4	3874.5	3838.9	3754.3	3616.2	3587.3	3636.2	3674.1	3647.4
27.5°	4235.2	4195.1	4168.4	4061.5	4005.9	3861.1	3827.7	3809.9	3818.8	3834.4
30°	4518.0	4540.3	4480.2	4404.5	4264.2	4117.2	4039.3	4023.7	3992.5	3965.8
32.5°	4921.1	4887.7	4852.0	4803.0	4682.8	4489.1	4413.4	4355.5	4261.9	4137.3
35°	5114.8	5210.5	5183.8	5052.4	4961.1	4887.7	4865.4	4776.3	4698.4	4502.4
37.5°	5437.7	5477.7	5439.9	5397.6	5355.3	5277.3	5250.6	5275.1	5121.5	4798.6
40°	5647.0	5731.6	5809.5	5691.5	5682.6	5698.2	5533.4	5504.5	5188.3	5019.0
42.5°	6074.5	6110.1	6125.7	6121.3	6172.5	6172.5	5858.5	5796.2	5571.3	5433.2
45°	6640.1	6669.0	6724.7	6764.8	6706.9	6735.8	6288.3	6263.8	6063.4	6036.6
47.5°	7130.0	7199.0	7323.7	7441.7	7517.4	7419.4	6929.6	6755.9	6704.7	6865.0
50°	7557.5	7475.1	7766.8	7887.1	8218.8	8381.4	7637.7	7568.6	7486.2	7793.5
52.5°	7599.8	7711.1	8123.1	8363.6	9047.2	9347.8	8506.1	8477.1	8376.9	8731.0
55°	7902.6	7889.3	8303.5	8824.5	9637.3	10142.7	9637.3	9619.4	9401.2	9737.5
57.5°	7851.4	7987.3	8314.6	9042.7	10169.4	10995.6	10948.8	10826.3	10521.3	10795.2
60°	7677.7	7713.4	8112.0	9036.0	10479.0	11870.7	12365.0	12389.5	11766.0	11984.2
62.5°	6693.5	6775.9	7281.4	8325.7	10258.5	12474.1	13747.8	13661.0	13162.2	12912.8
65°	5324.1	5241.7	5767.2	6896.2	8886.9	12046.6	14353.5	14676.3	13892.5	13436.1
67.5°	3264.4	3244.3	3749.8	4745.1	6649.0	10251.8	13870.3	14121.9	13689.9	13324.7
70°	1681.2	1630.0	1946.2	2647.6	4179.6	7521.9	12071.1	12318.2	12730.2	11950.8
72.5°	783.8	772.7	941.9	1302.6	2128.7	4422.3	9347.8	9525.9	10394.3	10075.9
75°	460.9	467.6	563.4	681.4	1037.7	2084.2	6203.7	6548.8	7490.7	7261.3
77.5°	345.1	345.1	400.8	474.3	605.7	806.1	3061.7	3518.2	4380.0	3939.1
80°	253.8	258.3	307.3	356.3	420.9	416.4	1215.8	1425.1	2008.5	1716.8
82.5°	198.2	204.9	238.3	265.0	296.2	251.6	498.8	536.6	826.1	656.9
85°	138.1	142.5	187.0	180.4	180.4	140.3	207.1	218.2	327.3	311.7
87.5°	33.4	37.9	91.3	100.2	75.7	42.3	64.6	73.5	118.0	135.8
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°
2554.1	0°	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1
2598.6	2.5°	2565.2	2574.1	2611.9	2591.9	2603.0	2556.3	2594.1	2563.0	2589.7	2576.3
2618.6	5°	2636.4	2616.4	2638.7	2623.1	2623.1	2640.9	2667.6	2647.6	2687.7	2669.8
2634.2	7.5°	2665.4	2667.6	2681.0	2683.2	2672.1	2727.7	2730.0	2723.3	2761.1	2752.2
2741.1	10°	2736.6	2738.9	2763.4	2776.7	2765.6	2785.6	2763.4	2745.6	2743.3	2734.4
2825.7	12.5°	2850.2	2872.5	2868.0	2879.2	2881.4	2796.8	2745.6	2658.7	2647.6	2658.7
2950.4	15°	2954.9	2946.0	2950.4	2972.7	2879.2	2743.3	2652.0	2578.5	2583.0	2585.2
3113.0	17.5°	3079.6	3086.2	3092.9	2990.5	2819.0	2658.7	2578.5	2578.5	2556.3	2565.2
3226.5	20°	3222.1	3195.3	3137.5	2992.7	2714.4	2560.7	2536.2	2536.2	2509.5	2491.7
3349.0	22.5°	3333.4	3280.0	3193.1	2923.7	2620.9	2522.9	2462.8	2420.4	2389.3	2353.6
3484.8	25°	3404.7	3375.7	3206.5	2852.4	2551.8	2422.7	2333.6	2269.0	2229.0	2182.2
3591.7	27.5°	3513.8	3458.1	3244.3	2770.0	2476.1	2322.5	2184.4	2084.2	2008.5	1959.5
3754.3	30°	3660.7	3580.6	3217.6	2652.0	2360.3	2148.8	1986.2	1857.1	1770.2	1730.2
3907.9	32.5°	3781.0	3676.3	3195.3	2545.1	2231.2	1972.9	1756.9	1625.5	1576.5	1525.3
4166.2	35°	4010.3	3803.2	3179.8	2485.0	2115.4	1797.0	1569.8	1456.3	1393.9	1318.2
4319.8	37.5°	4186.2	4023.7	3141.9	2360.3	1966.2	1625.5	1427.3	1324.9	1231.4	1151.2
4676.1	40°	4462.4	4331.0	3144.1	2184.4	1790.3	1478.5	1316.0	1209.1	1091.1	1022.1
5203.9	42.5°	4981.2	4633.8	3157.5	2044.1	1592.1	1358.3	1215.8	1088.9	970.9	913.0
5805.1	45°	5618.0	5050.2	3075.1	1917.2	1389.5	1244.7	1095.5	968.6	892.9	850.6
6622.3	47.5°	6350.6	5457.7	2963.8	1678.9	1220.2	1124.5	984.2	910.7	855.1	830.6
7675.5	50°	7170.1	6041.1	2932.6	1460.7	1088.9	1022.1	930.8	875.1	837.2	808.3
8862.4	52.5°	8225.5	6720.3	2870.2	1235.8	975.3	939.7	910.7	872.9	839.5	815.0
9969.0	55°	9234.2	7472.9	2803.4	1051.0	895.1	899.6	915.2	881.8	852.8	815.0
11209.3	57.5°	10369.9	8241.1	2556.3	915.2	835.0	879.6	910.7	872.9	843.9	815.0
12478.6	60°	11071.3	8673.1	2073.1	797.2	781.6	841.7	884.0	843.9	812.8	823.9
13062.0	62.5°	11356.3	8446.0	1563.2	723.7	743.7	790.5	841.7	826.1	803.8	846.2
13055.3	65°	10870.9	7922.7	1117.8	661.3	692.5	739.3	803.8	821.7	828.3	910.7
11990.9	67.5°	9672.9	6898.4	821.7	610.1	639.1	708.1	830.6	859.5	855.1	957.5
10062.6	70°	7740.1	5395.4	641.3	567.8	619.0	732.6	868.4	868.4	837.2	957.5
7675.5	72.5°	5631.4	3803.2	552.2	518.8	567.8	672.5	864.0	861.7	821.7	875.1
4887.7	75°	3409.1	2213.4	487.7	469.8	487.7	576.7	826.1	812.8	757.1	752.6
2351.4	77.5°	1699.0	1113.4	398.6	416.4	425.3	483.2	725.9	746.0	670.2	652.4
928.5	80°	717.0	485.4	331.8	358.5	358.5	407.5	603.4	616.8	556.7	523.3
367.4	82.5°	327.3	278.3	282.8	311.7	291.7	316.2	478.7	494.3	452.0	396.4
155.9	85°	138.1	158.1	216.0	244.9	216.0	204.9	329.6	347.4	293.9	244.9
66.8	87.5°	62.3	86.8	135.8	178.1	109.1	95.7	175.9	182.6	147.0	109.1
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°
2554.1
2551.8
2645.3
2738.9
2734.4
2663.2
2616.4
2567.4
2465.0
2333.6
2191.1
1981.8
1752.4
1523.1
1311.5
1153.4
1028.7
917.4
859.5
826.1
812.8
812.8
812.8
812.8
815.0
835.0
910.7
964.2
937.5
843.9
743.7
641.3
512.1
387.4
247.2
102.4
0.0

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