

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: P477547

Luminaire Tested: **IFLD-S-SA6A-830-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477547  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

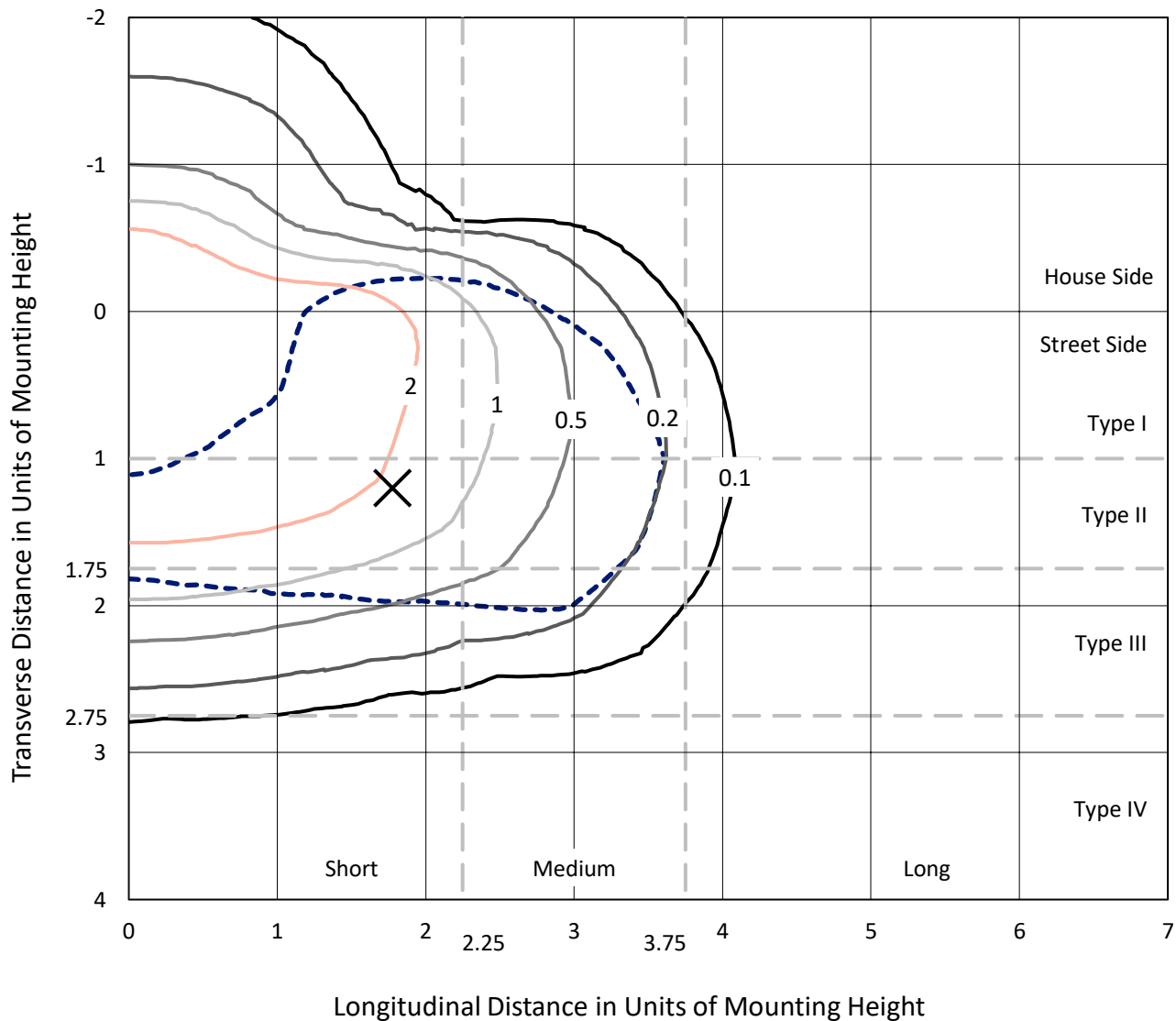
Lumens per Lamp: N/A  
Luminaire Lumens: 21843.4 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6  
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

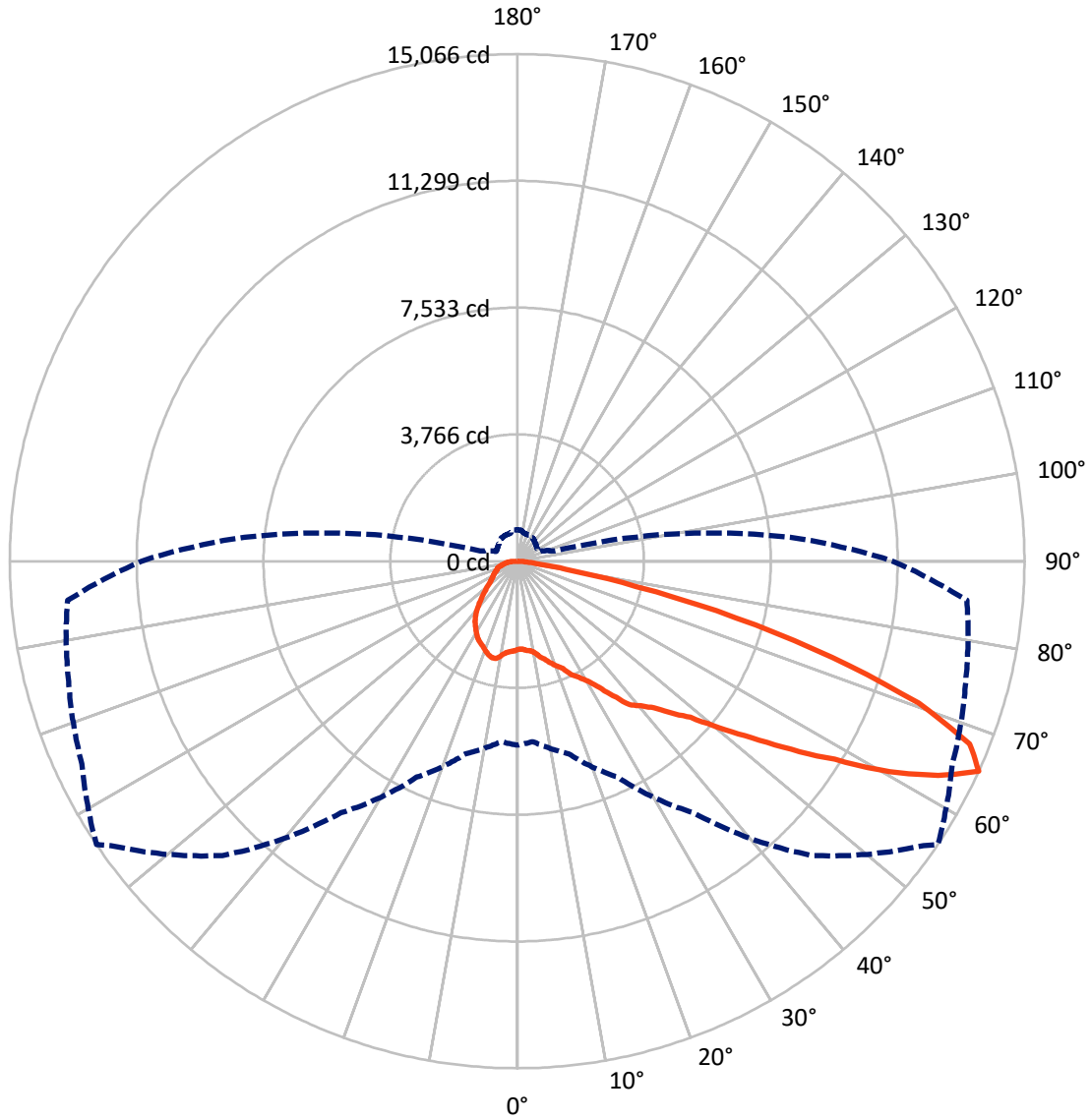
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	4898.8	0.0	4898.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	16944.6	0.0	16944.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	21843.4	0.0	21843.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.8	1.2
10°-20°	843.7	3.9
20°-30°	1502.2	6.9
30°-40°	2249.5	10.3
40°-50°	3332.9	15.3
50°-60°	5135.5	23.5
60°-70°	5814.0	26.6
70°-80°	2412.9	11.0
80°-90°	293.1	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°	21843.4	100.0
0°-180°	21843.4	100.0

**Coefficient of Utilization**

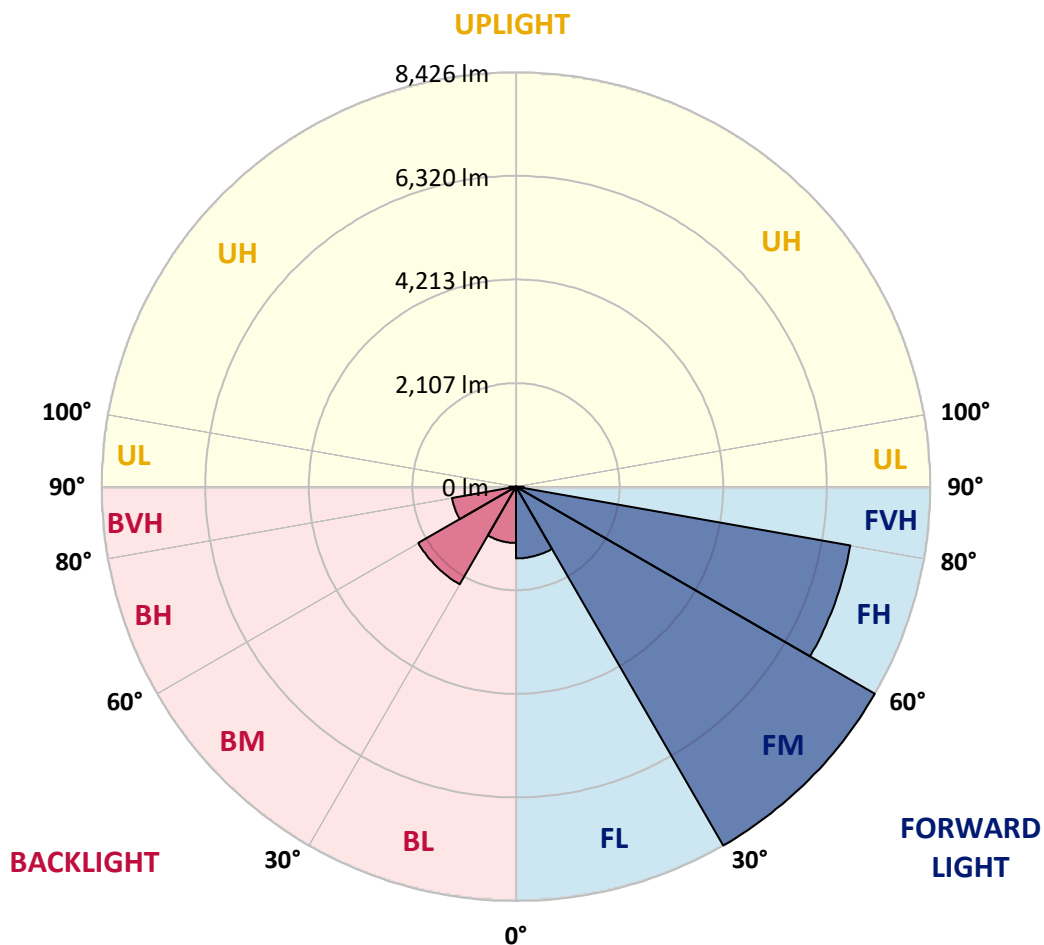


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.8	6.7			
FM (30°-60°)	8426.2	38.6			
FH (60°-80°)	6904.0	31.6			G3/7500
FVH (80°-90°)	154.6	0.7			G2/225
BL (0°-30°)	1145.9	5.2	B3/2500		
BM (30°-60°)	2291.6	10.5	B2/2500		
BH (60°-80°)	1322.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	138.5	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°	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8
2.5°	2553.3	2567.0	2557.8	2585.3	2608.1	2608.1	2626.4	2612.7	2631.0	2656.1
5°	2637.8	2583.0	2612.7	2626.4	2619.5	2631.0	2612.7	2658.4	2628.7	2676.7
7.5°	2658.4	2679.0	2704.1	2681.3	2701.8	2690.4	2692.7	2685.8	2669.8	2708.7
10°	2809.3	2779.6	2836.7	2802.4	2797.8	2793.3	2784.1	2749.8	2788.7	2791.0
12.5°	2983.0	2955.6	2953.3	2925.8	2962.4	2896.1	2909.8	2891.6	2898.4	2907.6
15°	3108.7	3097.3	3149.9	3117.9	3069.9	3040.1	3072.1	3021.8	3047.0	3042.4
17.5°	3357.9	3355.6	3316.7	3264.1	3236.7	3193.3	3186.4	3165.9	3184.1	3175.0
20°	3531.6	3556.7	3563.6	3501.9	3396.7	3348.7	3337.3	3321.3	3341.9	3335.0
22.5°	3796.7	3757.9	3787.6	3680.2	3641.3	3527.0	3485.9	3463.0	3561.3	3536.2
25°	3965.9	4007.0	3977.3	3940.7	3853.9	3712.2	3682.4	3732.7	3771.6	3744.2
27.5°	4347.6	4306.5	4279.0	4169.3	4112.2	3963.6	3929.3	3911.0	3920.2	3936.2
30°	4637.9	4660.8	4599.1	4521.3	4377.3	4226.5	4146.5	4130.5	4098.5	4071.0
32.5°	5051.7	5017.4	4980.8	4930.5	4807.1	4608.2	4530.5	4471.1	4375.1	4247.0
35°	5250.5	5348.8	5321.4	5186.5	5092.8	5017.4	4994.5	4903.1	4823.1	4621.9
37.5°	5582.0	5623.1	5584.2	5540.8	5497.4	5417.4	5390.0	5415.1	5257.4	4925.9
40°	5796.8	5883.7	5963.7	5842.5	5833.4	5849.4	5680.3	5650.5	5326.0	5152.2
42.5°	6235.7	6272.3	6288.3	6283.7	6336.3	6336.3	6014.0	5950.0	5719.1	5577.4
45°	6816.3	6846.0	6903.2	6944.3	6884.9	6914.6	6455.1	6430.0	6224.3	6196.8
47.5°	7319.2	7390.0	7518.0	7639.2	7716.9	7616.3	7113.5	6935.2	6882.6	7047.2
50°	7758.1	7673.5	7972.9	8096.4	8436.9	8603.8	7840.3	7769.5	7684.9	8000.4
52.5°	7801.5	7915.8	8338.7	8585.5	9287.3	9595.9	8731.8	8702.1	8599.2	8962.7
55°	8112.4	8098.6	8523.8	9058.7	9893.0	10411.9	9893.0	9874.7	9650.7	9995.9
57.5°	8059.8	8199.2	8535.2	9282.7	10439.3	11287.4	11239.4	11113.6	10800.5	11081.6
60°	7881.5	7918.1	8327.2	9275.8	10757.1	12185.7	12693.1	12718.3	12078.3	12302.3
62.5°	6871.2	6955.7	7474.6	8546.7	10530.8	12805.1	14112.6	14023.5	13511.5	13255.4
65°	5465.4	5380.8	5920.3	7079.2	9122.7	12366.3	14734.4	15065.8	14261.2	13792.6
67.5°	3351.0	3330.4	3849.3	4871.1	6825.4	10523.9	14238.3	14496.6	14053.2	13678.3
70°	1725.8	1673.2	1997.8	2717.8	4290.5	7721.5	12391.4	12645.1	13068.0	12268.0
72.5°	804.6	793.2	966.9	1337.2	2185.2	4539.6	9595.9	9778.7	10670.2	10343.3
75°	473.2	480.0	578.3	699.5	1065.2	2139.5	6368.3	6722.6	7689.5	7454.0
77.5°	354.3	354.3	411.4	486.9	621.7	827.5	3143.0	3611.6	4496.2	4043.6
80°	260.6	265.2	315.4	365.7	432.0	427.4	1248.1	1462.9	2061.8	1762.4
82.5°	203.4	210.3	244.6	272.0	304.0	258.3	512.0	550.9	848.0	674.3
85°	141.7	146.3	192.0	185.2	185.2	144.0	212.6	224.0	336.0	320.0
87.5°	34.3	38.9	93.7	102.9	77.7	43.4	66.3	75.4	121.1	139.4
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°
2621.8	0°	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8	2621.8
2667.5	2.5°	2633.3	2642.4	2681.3	2660.7	2672.1	2624.1	2663.0	2631.0	2658.4	2644.7
2688.1	5°	2706.4	2685.8	2708.7	2692.7	2692.7	2711.0	2738.4	2717.8	2759.0	2740.7
2704.1	7.5°	2736.1	2738.4	2752.1	2754.4	2743.0	2800.1	2802.4	2795.6	2834.4	2825.3
2813.8	10°	2809.3	2811.6	2836.7	2850.4	2839.0	2859.6	2836.7	2818.4	2816.1	2807.0
2900.7	12.5°	2925.8	2948.7	2944.1	2955.6	2957.8	2871.0	2818.4	2729.3	2717.8	2729.3
3028.7	15°	3033.3	3024.1	3028.7	3051.6	2955.6	2816.1	2722.4	2647.0	2651.5	2653.8
3195.6	17.5°	3161.3	3168.1	3175.0	3069.9	2893.8	2729.3	2647.0	2647.0	2624.1	2633.3
3312.1	20°	3307.6	3280.1	3220.7	3072.1	2786.4	2628.7	2603.5	2603.5	2576.1	2557.8
3437.9	22.5°	3421.9	3367.0	3277.9	3001.3	2690.4	2589.8	2528.1	2484.7	2452.7	2416.1
3577.3	25°	3495.0	3465.3	3291.6	2928.1	2619.5	2487.0	2395.5	2329.2	2288.1	2240.1
3687.0	27.5°	3607.0	3549.9	3330.4	2843.6	2541.8	2384.1	2242.4	2139.5	2061.8	2011.5
3853.9	30°	3757.9	3675.6	3303.0	2722.4	2423.0	2205.8	2038.9	1906.4	1817.2	1776.1
4011.6	32.5°	3881.3	3773.9	3280.1	2612.7	2290.4	2025.2	1803.5	1668.6	1618.4	1565.8
4276.8	35°	4116.8	3904.2	3264.1	2551.0	2171.5	1844.7	1611.5	1494.9	1430.9	1353.2
4434.5	37.5°	4297.3	4130.5	3225.3	2423.0	2018.4	1668.6	1465.2	1360.1	1264.1	1181.8
4800.2	40°	4580.8	4445.9	3227.6	2242.4	1837.8	1517.8	1350.9	1241.2	1120.0	1049.2
5342.0	42.5°	5113.4	4756.8	3241.3	2098.4	1634.4	1394.3	1248.1	1117.8	996.6	937.2
5959.1	45°	5767.1	5184.2	3156.7	1968.1	1426.3	1277.8	1124.6	994.3	916.6	873.2
6798.0	47.5°	6519.1	5602.5	3042.4	1723.5	1252.6	1154.3	1010.3	934.9	877.8	852.6
7879.2	50°	7360.3	6201.4	3010.4	1499.5	1117.8	1049.2	955.5	898.3	859.5	829.8
9097.5	52.5°	8443.8	6898.6	2946.4	1268.6	1001.2	964.6	934.9	896.0	861.8	836.6
10233.6	55°	9479.3	7671.2	2877.8	1078.9	918.9	923.5	939.5	905.2	875.5	836.6
11506.8	57.5°	10645.0	8459.8	2624.1	939.5	857.2	902.9	934.9	896.0	866.3	836.6
12809.7	60°	11365.1	8903.3	2128.1	818.3	802.3	864.0	907.5	866.3	834.3	845.8
13408.6	62.5°	11657.7	8670.1	1604.6	742.9	763.5	811.5	864.0	848.0	825.2	868.6
13401.7	65°	11159.4	8132.9	1147.5	678.9	710.9	758.9	825.2	843.5	850.3	934.9
12309.1	67.5°	9929.6	7081.5	843.5	626.3	656.0	726.9	852.6	882.3	877.8	982.9
10329.6	70°	7945.5	5538.5	658.3	582.9	635.5	752.0	891.5	891.5	859.5	982.9
7879.2	72.5°	5780.8	3904.2	566.9	532.6	582.9	690.3	886.9	884.6	843.5	898.3
5017.4	75°	3499.6	2272.1	500.6	482.3	500.6	592.0	848.0	834.3	777.2	772.6
2413.8	77.5°	1744.1	1142.9	409.2	427.4	436.6	496.0	745.2	765.7	688.0	669.7
953.2	80°	736.0	498.3	340.6	368.0	368.0	418.3	619.5	633.2	571.5	537.2
377.2	82.5°	336.0	285.7	290.3	320.0	299.4	324.6	491.5	507.5	464.0	406.9
160.0	85°	141.7	162.3	221.7	251.4	221.7	210.3	338.3	356.6	301.7	251.4
68.6	87.5°	64.0	89.1	139.4	182.9	112.0	98.3	180.6	187.4	150.9	112.0
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>
2621.8
2619.5
2715.5
2811.6
2807.0
2733.8
2685.8
2635.5
2530.4
2395.5
2249.2
2034.4
1798.9
1563.5
1346.3
1184.1
1056.0
941.8
882.3
848.0
834.3
834.3
834.3
834.3
834.3
836.6
857.2
934.9
989.8
962.3
866.3
763.5
658.3
525.7
397.7
253.7
105.1
0.0

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