

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: P477243

Luminaire Tested: **IFLD-M-SA4D-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477243  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-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

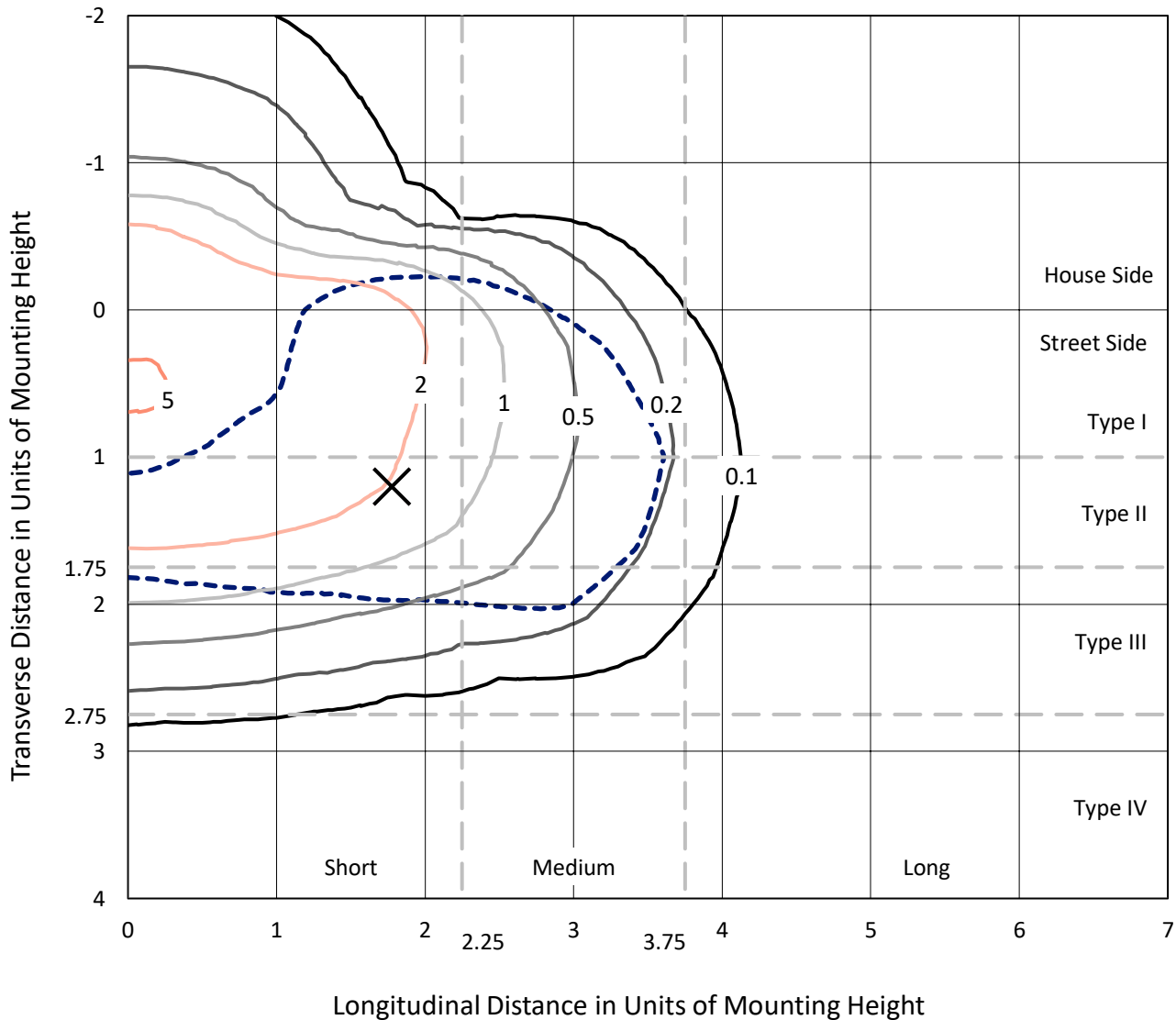
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23470.5 lumens  
Efficiency: N/A  
Efficacy: 94.0 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): 249.7  
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

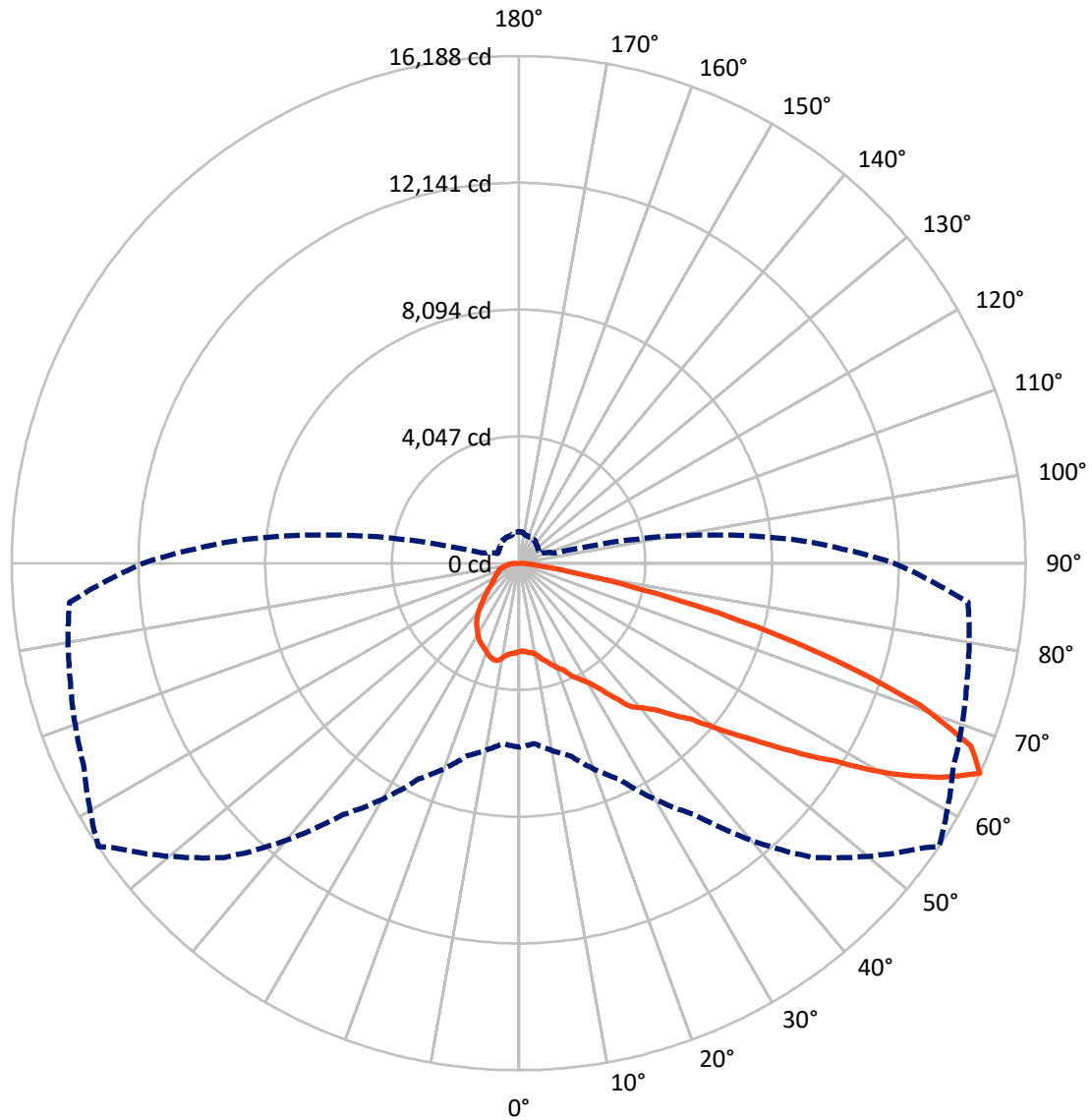
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5263.7	0.0	5263.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	18206.8	0.0	18206.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	23470.5	0.0	23470.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.2	1.2
10°-20°	906.5	3.9
20°-30°	1614.1	6.9
30°-40°	2417.0	10.3
40°-50°	3581.1	15.3
50°-60°	5518.0	23.5
60°-70°	6247.1	26.6
70°-80°	2592.6	11.0
80°-90°	315.0	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°	23470.5	100.0
0°-180°	23470.5	100.0

**Coefficient of Utilization**

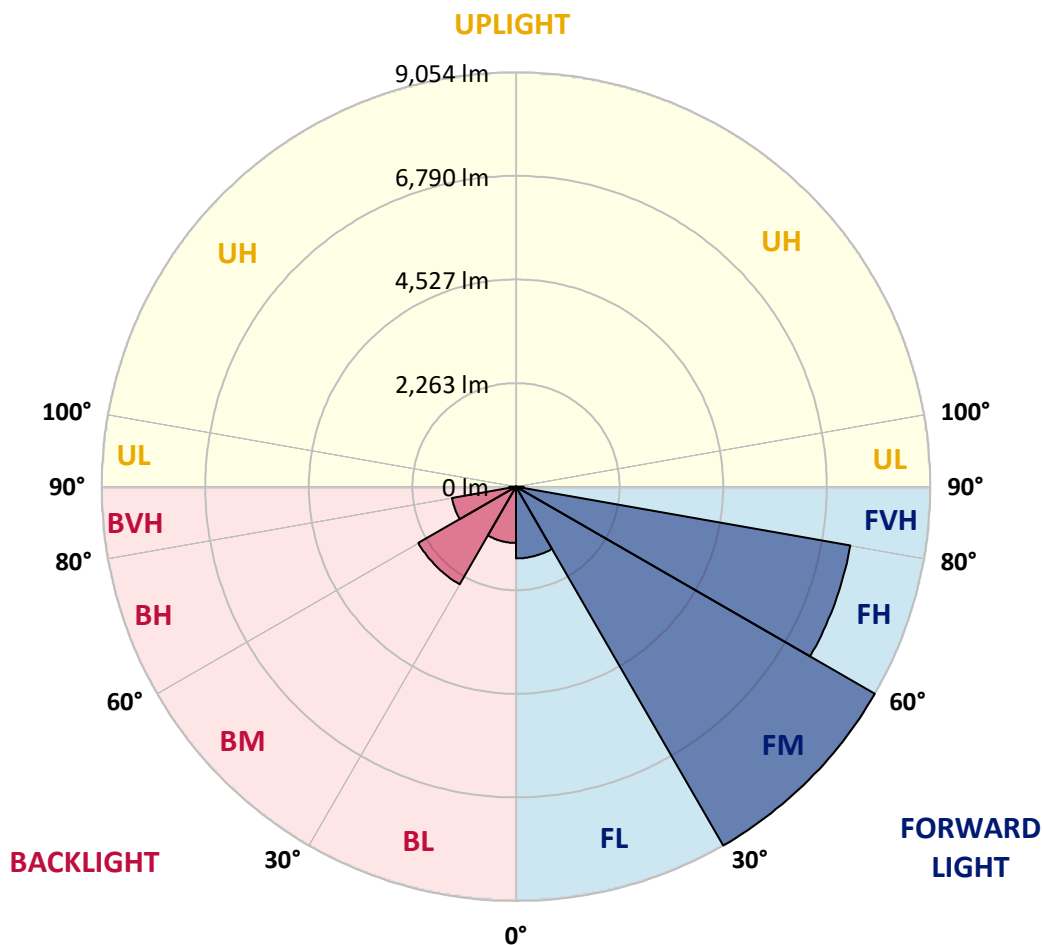


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.5	6.7			
FM (30°-60°)	9053.9	38.6			
FH (60°-80°)	7418.3	31.6			G3/7500
FVH (80°-90°)	166.1	0.7			G2/225
BL (0°-30°)	1231.2	5.2	B3/2500		
BM (30°-60°)	2462.3	10.5	B2/2500		
BH (60°-80°)	1421.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	148.8	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1
2.5°	2743.4	2758.2	2748.4	2777.8	2802.4	2802.4	2822.0	2807.3	2827.0	2854.0
5°	2834.3	2775.4	2807.3	2822.0	2814.7	2827.0	2807.3	2856.4	2824.5	2876.1
7.5°	2856.4	2878.5	2905.6	2881.0	2903.1	2890.8	2893.3	2885.9	2868.7	2910.5
10°	3018.5	2986.6	3048.0	3011.2	3006.3	3001.3	2991.5	2954.7	2996.4	2998.9
12.5°	3205.2	3175.7	3173.3	3143.8	3183.1	3111.9	3126.6	3107.0	3114.3	3124.1
15°	3340.3	3328.0	3384.5	3350.1	3298.5	3266.6	3301.0	3246.9	3274.0	3269.1
17.5°	3608.0	3605.5	3563.8	3507.3	3477.8	3431.2	3423.8	3401.7	3421.3	3411.5
20°	3794.7	3821.7	3829.0	3762.7	3649.7	3598.2	3585.9	3568.7	3590.8	3583.4
22.5°	4079.6	4037.8	4069.7	3954.3	3912.5	3789.7	3745.5	3721.0	3826.6	3799.6
25°	4261.3	4305.5	4273.6	4234.3	4141.0	3988.7	3956.8	4010.8	4052.5	4023.1
27.5°	4671.5	4627.3	4597.8	4479.9	4418.5	4258.9	4222.0	4202.4	4212.2	4229.4
30°	4983.4	5008.0	4941.6	4858.1	4703.4	4541.3	4455.3	4438.1	4403.8	4374.3
32.5°	5428.0	5391.1	5351.8	5297.8	5165.2	4951.5	4868.0	4804.1	4701.0	4563.4
35°	5641.6	5747.2	5717.8	5572.9	5472.2	5391.1	5366.6	5268.3	5182.3	4966.2
37.5°	5997.8	6042.0	6000.2	5953.6	5906.9	5820.9	5791.5	5818.5	5649.0	5292.9
40°	6228.6	6322.0	6407.9	6277.8	6267.9	6285.1	6103.4	6071.4	5722.7	5536.0
42.5°	6700.2	6739.5	6756.7	6751.8	6808.3	6808.3	6462.0	6393.2	6145.1	5992.9
45°	7324.1	7356.0	7417.4	7461.6	7397.7	7429.7	6936.0	6909.0	6687.9	6658.5
47.5°	7864.4	7940.5	8078.1	8208.2	8291.8	8183.7	7643.3	7451.8	7395.3	7572.1
50°	8336.0	8245.1	8566.8	8699.5	9065.4	9244.7	8424.4	8348.2	8257.4	8596.3
52.5°	8382.6	8505.4	8959.8	9225.1	9979.1	10310.7	9382.3	9350.3	9239.8	9630.3
55°	8716.7	8701.9	9158.7	9733.5	10629.9	11187.5	10629.9	10610.3	10369.6	10740.5
57.5°	8660.2	8810.0	9171.0	9974.2	11217.0	12128.2	12076.6	11941.5	11605.0	11907.1
60°	8468.6	8507.9	8947.5	9966.8	11558.3	13093.4	13638.7	13665.7	12978.0	13218.7
62.5°	7383.0	7473.9	8031.4	9183.3	11315.2	13759.0	15163.9	15068.1	14517.9	14242.9
65°	5872.5	5781.6	6361.3	7606.5	9802.2	13287.4	15831.9	16188.1	15323.5	14820.0
67.5°	3600.6	3578.5	4136.1	5233.9	7333.9	11307.8	15299.0	15576.5	15100.0	14697.2
70°	1854.3	1797.9	2146.6	2920.3	4610.1	8296.7	13314.4	13587.1	14041.5	13181.8
72.5°	864.5	852.3	1038.9	1436.8	2348.0	4877.8	10310.7	10507.1	11465.0	11113.8
75°	508.4	515.8	621.4	751.6	1144.5	2298.9	6842.7	7223.4	8262.3	8009.3
77.5°	380.7	380.7	442.1	523.1	668.1	889.1	3377.1	3880.6	4831.1	4344.8
80°	280.0	284.9	338.9	393.0	464.2	459.3	1341.0	1571.9	2215.4	1893.6
82.5°	218.6	226.0	262.8	292.3	326.7	277.5	550.2	591.9	911.2	724.5
85°	152.3	157.2	206.3	198.9	198.9	154.7	228.4	240.7	361.0	343.9
87.5°	36.8	41.8	100.7	110.5	83.5	46.7	71.2	81.1	130.2	149.8
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°
2817.1	0°	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1	2817.1
2866.3	2.5°	2829.4	2839.2	2881.0	2858.9	2871.2	2819.6	2861.3	2827.0	2856.4	2841.7
2888.4	5°	2908.0	2885.9	2910.5	2893.3	2893.3	2912.9	2942.4	2920.3	2964.5	2944.8
2905.6	7.5°	2939.9	2942.4	2957.1	2959.6	2947.3	3008.7	3011.2	3003.8	3045.5	3035.7
3023.4	10°	3018.5	3021.0	3048.0	3062.7	3050.5	3072.6	3048.0	3028.4	3025.9	3016.1
3116.8	12.5°	3143.8	3168.4	3163.4	3175.7	3178.2	3084.8	3028.4	2932.6	2920.3	2932.6
3254.3	15°	3259.2	3249.4	3254.3	3278.9	3175.7	3025.9	2925.2	2844.1	2849.1	2851.5
3433.6	17.5°	3396.8	3404.1	3411.5	3298.5	3109.4	2932.6	2844.1	2844.1	2819.6	2829.4
3558.9	20°	3554.0	3524.5	3460.6	3301.0	2994.0	2824.5	2797.5	2797.5	2768.0	2748.4
3694.0	22.5°	3676.8	3617.8	3522.0	3224.8	2890.8	2782.7	2716.4	2669.8	2635.4	2596.1
3843.8	25°	3755.4	3723.4	3536.8	3146.2	2814.7	2672.2	2574.0	2502.8	2458.5	2407.0
3961.7	27.5°	3875.7	3814.3	3578.5	3055.4	2731.2	2561.7	2409.4	2298.9	2215.4	2161.4
4141.0	30°	4037.8	3949.4	3549.0	2925.2	2603.5	2370.1	2190.8	2048.4	1952.6	1908.4
4310.4	32.5°	4170.4	4055.0	3524.5	2807.3	2461.0	2176.1	1937.9	1792.9	1738.9	1682.4
4595.3	35°	4423.4	4195.0	3507.3	2741.0	2333.3	1982.1	1731.5	1606.3	1537.5	1454.0
4764.8	37.5°	4617.4	4438.1	3465.5	2603.5	2168.7	1792.9	1574.4	1461.4	1358.2	1269.8
5157.8	40°	4922.0	4777.1	3468.0	2409.4	1974.7	1630.8	1451.5	1333.7	1203.5	1127.3
5739.9	42.5°	5494.3	5111.1	3482.7	2254.7	1756.1	1498.2	1341.0	1201.0	1070.9	1007.0
6403.0	45°	6196.7	5570.4	3391.9	2114.7	1532.6	1373.0	1208.4	1068.4	984.9	938.2
7304.4	47.5°	7004.8	6019.9	3269.1	1851.9	1345.9	1240.3	1085.6	1004.5	943.1	916.1
8466.1	50°	7908.6	6663.4	3234.7	1611.2	1201.0	1127.3	1026.6	965.2	923.5	891.6
9775.2	52.5°	9072.8	7412.5	3165.9	1363.1	1075.8	1036.5	1004.5	962.8	925.9	898.9
10995.9	55°	10185.4	8242.6	3092.2	1159.3	987.3	992.3	1009.5	972.6	940.7	898.9
12363.9	57.5°	11438.0	9090.0	2819.6	1009.5	921.0	970.2	1004.5	962.8	930.9	898.9
13763.9	60°	12211.7	9566.5	2286.6	879.3	862.1	928.4	975.1	930.9	896.5	908.8
14407.4	62.5°	12526.0	9315.9	1724.2	798.2	820.3	871.9	928.4	911.2	886.6	933.3
14400.0	65°	11990.6	8738.8	1233.0	729.5	763.8	815.4	886.6	906.3	913.7	1004.5
13226.0	67.5°	10669.2	7609.0	906.3	673.0	704.9	781.0	916.1	948.0	943.1	1056.1
11099.1	70°	8537.4	5951.1	707.4	626.3	682.8	808.1	957.9	957.9	923.5	1056.1
8466.1	72.5°	6211.4	4195.0	609.1	572.3	626.3	741.7	953.0	950.5	906.3	965.2
5391.1	75°	3760.3	2441.4	537.9	518.2	537.9	636.1	911.2	896.5	835.1	830.2
2593.6	77.5°	1874.0	1228.0	439.6	459.3	469.1	533.0	800.7	822.8	739.3	719.6
1024.2	80°	790.9	535.4	366.0	395.4	395.4	449.5	665.6	680.3	614.0	577.2
405.3	82.5°	361.0	307.0	311.9	343.9	321.7	348.8	528.1	545.3	498.6	437.2
171.9	85°	152.3	174.4	238.2	270.2	238.2	226.0	363.5	383.1	324.2	270.2
73.7	87.5°	68.8	95.8	149.8	196.5	120.3	105.6	194.0	201.4	162.1	120.3
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>
2817.1
2814.7
2917.8
3021.0
3016.1
2937.5
2885.9
2831.9
2718.9
2574.0
2416.8
2185.9
1932.9
1680.0
1446.6
1272.3
1134.7
1011.9
948.0
911.2
896.5
896.5
896.5
896.5
898.9
921.0
1004.5
1063.5
1034.0
930.9
820.3
707.4
564.9
427.4
272.6
113.0
0.0

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