

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: P637798

Luminaire Tested: **IFLD-M-SA4C-722-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637798  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-722-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17659.2 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

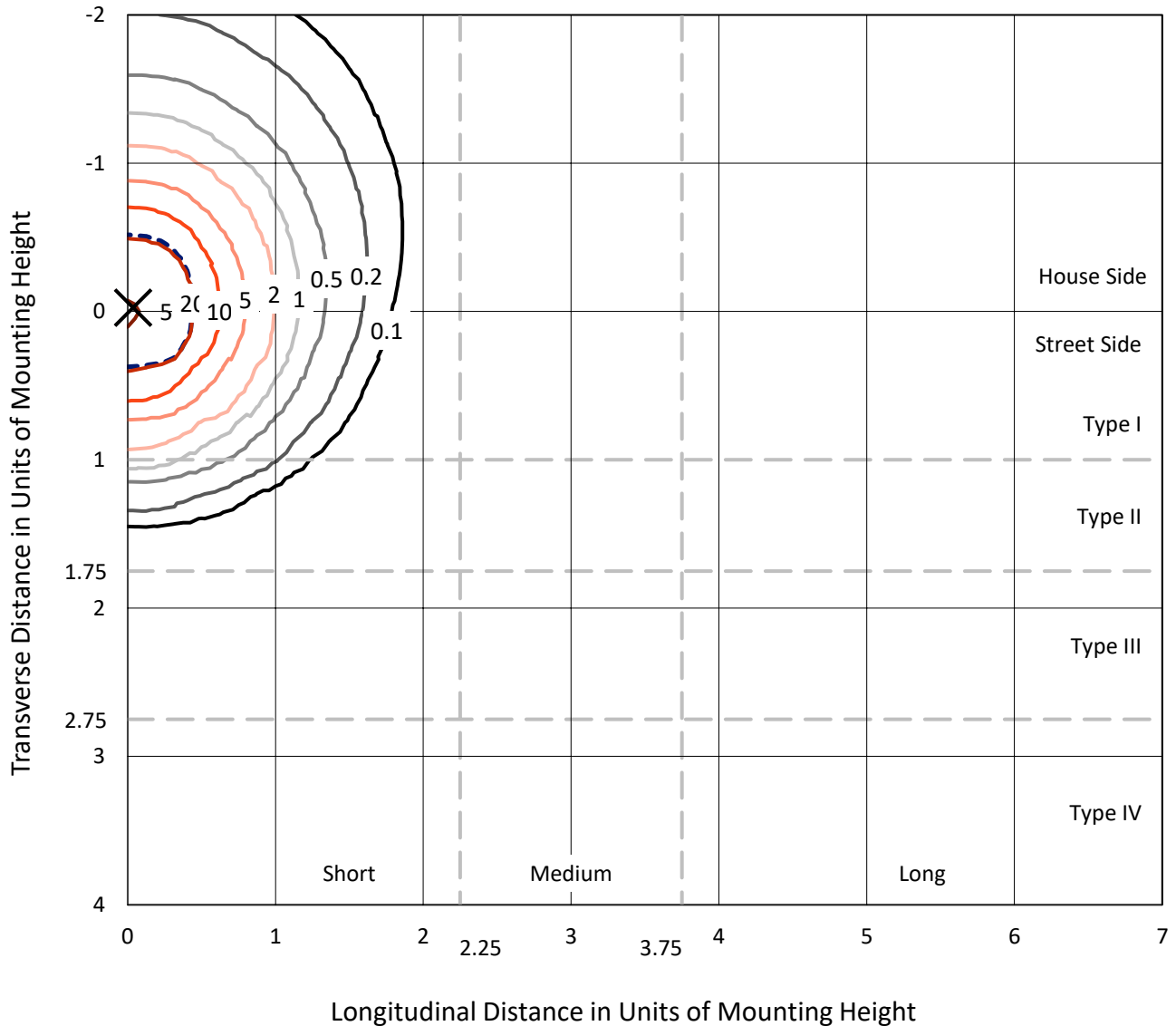
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

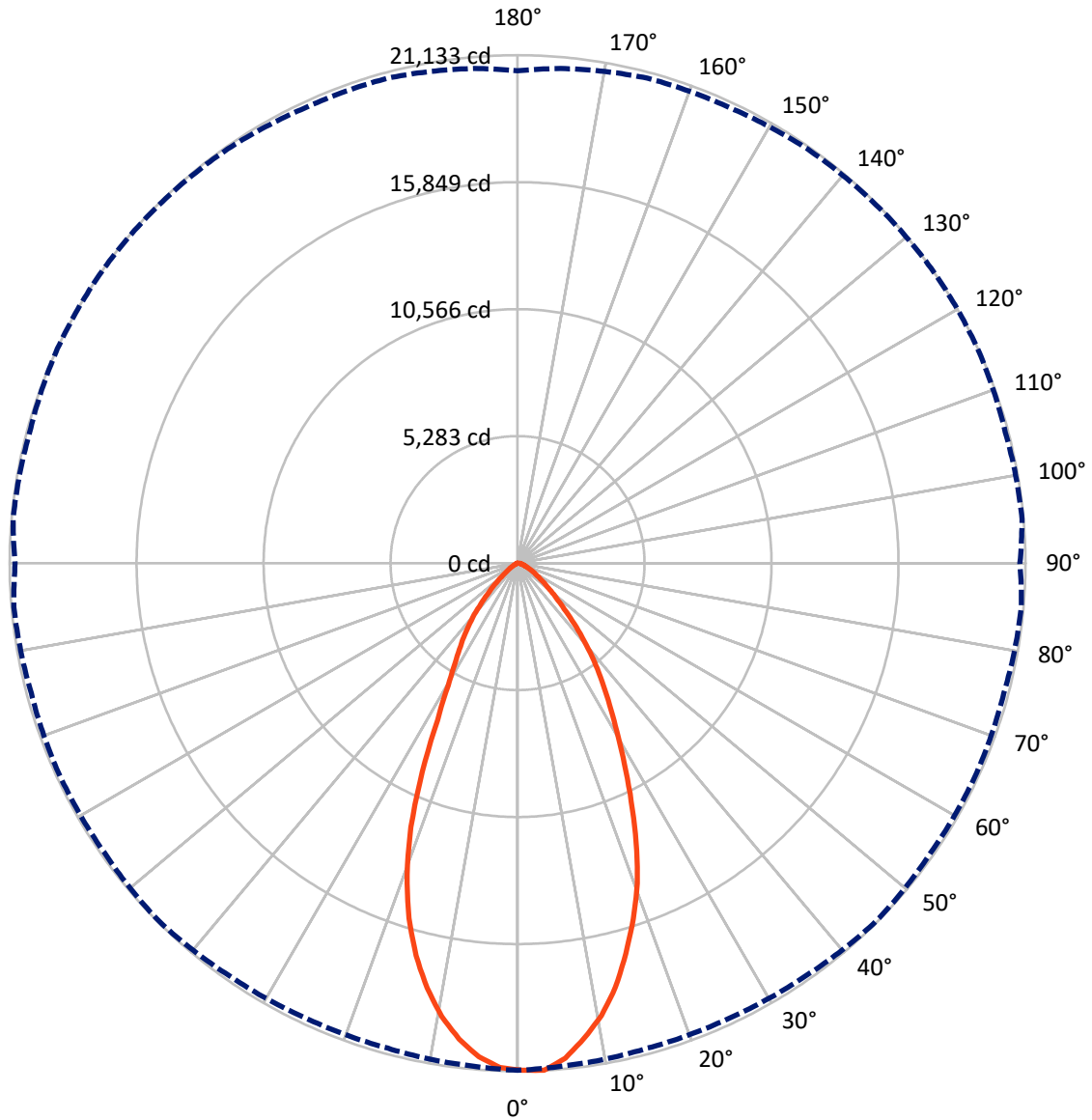
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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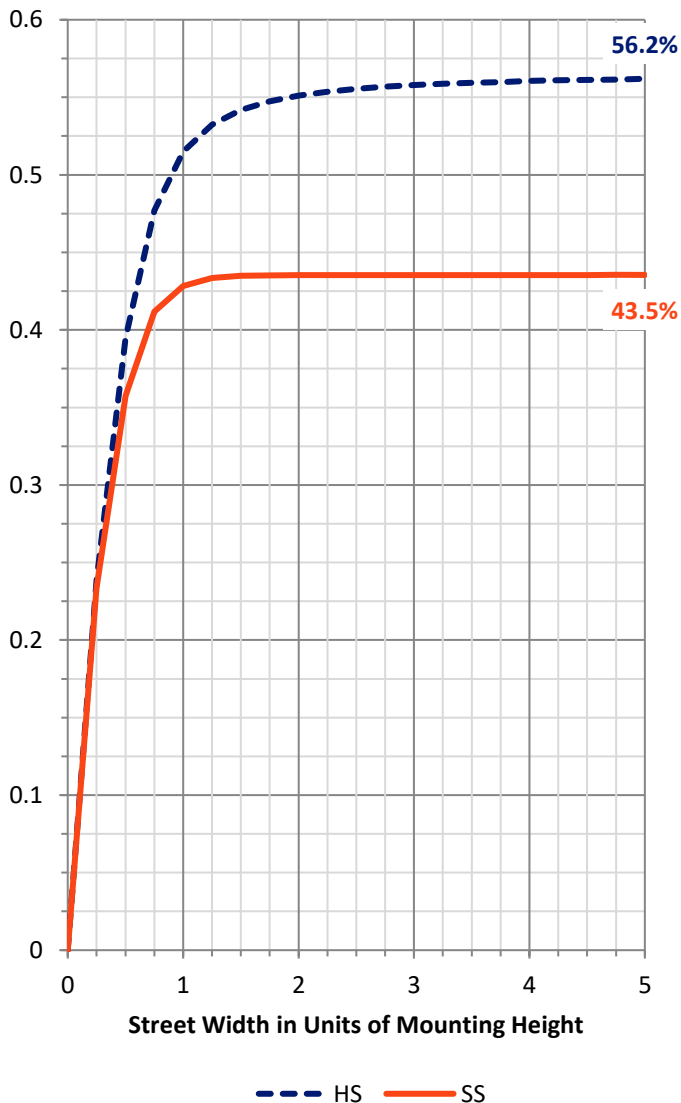
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10020.5	0.0	10020.5
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7638.7	0.0	7638.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	17659.2	0.0	17659.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1915.8	10.8
10°-20°	4566.9	25.9
20°-30°	4651.3	26.3
30°-40°	3468.5	19.6
40°-50°	1812.0	10.3
50°-60°	762.1	4.3
60°-70°	311.3	1.8
70°-80°	131.0	0.7
80°-90°	40.4	0.2
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°	17659.2	100.0
0°-180°	17659.2	100.0



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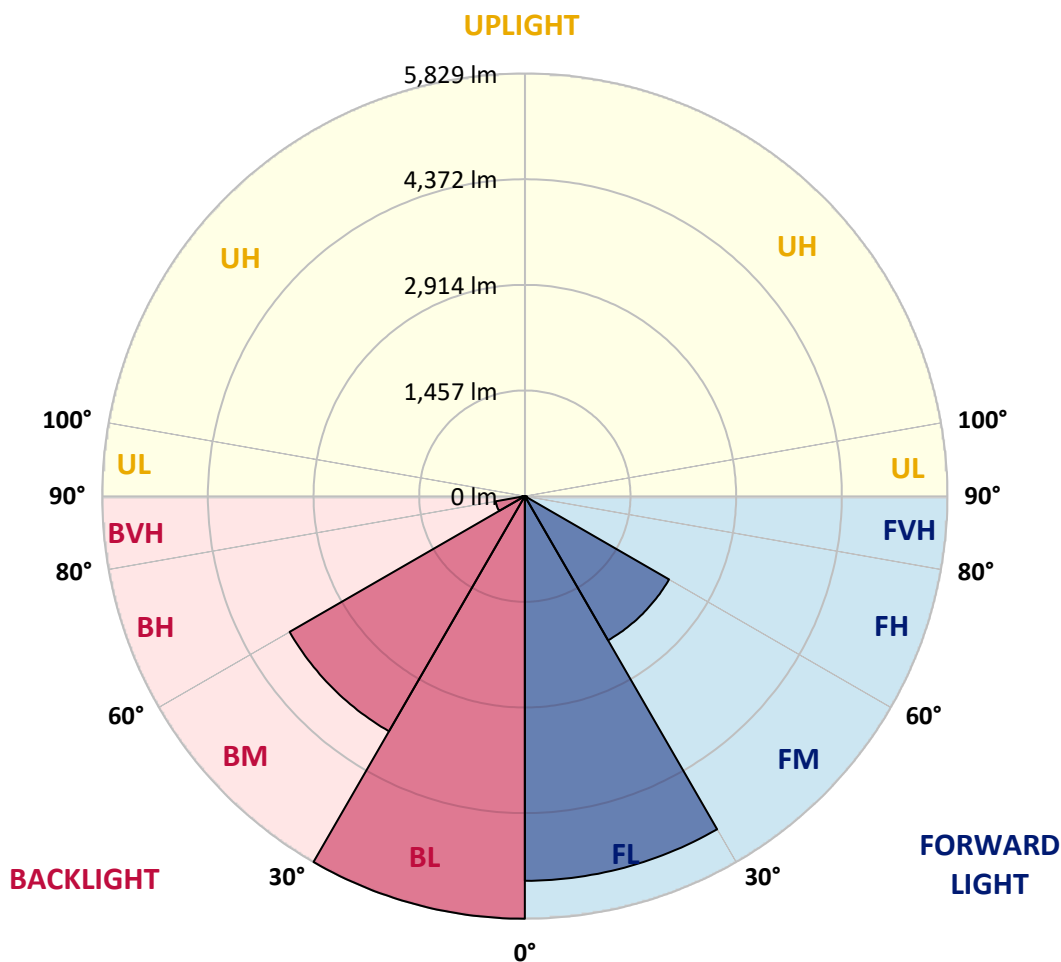
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5305.0	30.0			
FM (30°-60°)	2296.7	13.0			
FH (60°-80°)	33.2	0.2			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	5829.0	33.0	B5		
BM (30°-60°)	3746.0	21.2	B3/5000		
BH (60°-80°)	409.0	2.3	B1/500		G1/500
BVH (80°-90°)	36.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5
2.5°	21100.7	21014.5	20892.1	20880.7	20944.2	21082.6	20994.1	20998.7	20944.2	21037.2
5°	20769.6	20687.9	20604.0	20492.8	20585.8	20644.8	20599.4	20549.5	20479.2	20569.9
7.5°	20143.5	20098.1	19973.3	19923.4	19980.2	20045.9	19948.4	19934.8	19837.2	19955.2
10°	19186.2	19168.1	19045.6	19016.1	19066.0	19165.8	19122.7	19113.6	19052.4	19041.0
12.5°	18192.6	18122.3	17970.3	17961.3	18036.1	18185.8	18070.1	17959.0	17993.0	18022.5
15°	15633.9	15559.0	15935.6	16527.6	16838.4	16827.1	16861.1	16727.3	16686.4	16700.0
17.5°	12428.6	12301.6	12437.7	13354.1	14830.9	15688.3	15452.4	15164.3	15010.1	14908.0
20°	10727.3	10734.1	10709.2	10945.1	11866.1	13821.4	13764.7	13208.9	13007.1	12923.1
22.5°	9692.9	9654.4	9599.9	9674.8	9922.0	11069.8	11838.8	11328.4	11258.1	11165.1
25°	8678.9	8678.9	8613.2	8688.0	8758.3	8774.2	9545.5	9754.2	9618.1	9618.1
27.5°	7801.1	7755.7	7726.2	7760.2	7667.2	7220.3	7317.9	8386.3	8293.3	8236.6
30°	6930.0	6916.4	6866.5	6911.8	6567.0	6063.5	5859.3	7077.4	7175.0	7154.6
32.5°	5720.9	5775.4	5997.7	6068.0	5478.2	5072.2	4877.1	5875.2	6265.3	6249.5
35°	3888.1	3933.4	4187.5	5026.8	4541.4	4251.0	4194.3	4672.9	5314.9	5376.1
37.5°	3096.4	3089.6	3162.2	3311.9	3649.9	3579.6	3563.7	3688.4	4334.9	4362.2
40°	2552.0	2542.9	2540.6	2418.1	2334.2	2976.2	2933.1	2858.2	3418.5	3472.9
42.5°	2057.4	2066.5	2073.3	1805.7	1683.2	2295.6	2270.7	2193.6	2681.3	2744.8
45°	1615.1	1612.8	1626.4	1345.2	1311.1	1467.7	1696.8	1635.5	2023.4	2091.5
47.5°	837.0	866.5	1050.3	1041.2	1057.1	1041.2	1283.9	1268.0	1522.1	1631.0
50°	562.6	571.6	587.5	589.8	832.5	766.7	871.1	986.8	1066.2	1234.0
52.5°	435.5	442.3	401.5	376.6	510.4	567.1	571.6	682.8	744.0	914.2
55°	242.7	272.2	292.6	294.9	281.3	419.7	417.4	505.9	553.5	666.9
57.5°	31.8	38.6	59.0	190.5	188.3	233.6	292.6	367.5	394.7	487.7
60°	2.3	4.5	6.8	29.5	124.8	136.1	199.6	229.1	274.5	342.5
62.5°	0.0	0.0	2.3	6.8	25.0	79.4	104.3	120.2	161.1	224.6
65°	0.0	0.0	2.3	4.5	9.1	29.5	40.8	65.8	95.3	138.4
67.5°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	29.5	49.9	83.9
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	27.2	45.4
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	11.3	13.6	18.1	25.0
75°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	11.3	13.6	15.9
77.5°	0.0	0.0	2.3	4.5	6.8	11.3	9.1	11.3	11.3	11.3
80°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	11.3	9.1	9.1
82.5°	0.0	0.0	2.3	6.8	6.8	15.9	15.9	15.9	6.8	6.8
85°	0.0	0.0	4.5	6.8	11.3	18.1	18.1	13.6	6.8	4.5
87.5°	0.0	0.0	2.3	4.5	4.5	9.1	13.6	11.3	4.5	2.3
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
21098.5	0°	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5	21098.5
20901.1	2.5°	21069.0	21012.3	21118.9	21132.5	21087.1	21030.4	20898.9	20887.5	20658.4
20438.4	5°	20669.7	20576.7	20644.8	20690.2	20674.3	20613.0	20558.6	20508.7	20302.3
19687.5	7.5°	19925.7	19891.7	19923.4	19957.5	20023.3	19957.5	19934.8	19882.6	19678.5
18948.0	10°	19100.0	19036.5	19156.7	19140.8	19122.7	19104.5	19009.3	19018.3	18777.9
17940.9	12.5°	18086.0	17979.4	18095.1	18108.7	18095.1	18031.6	17925.0	17970.3	17750.3
16579.8	15°	16722.7	16711.4	16795.3	16849.7	16888.3	16820.3	16784.0	16806.6	16675.1
14828.6	17.5°	15048.6	15196.1	15470.6	15563.6	15565.8	15636.1	15615.7	15588.5	15491.0
12889.1	20°	13079.6	13363.2	13785.1	14218.4	14343.2	14284.2	14257.0	14306.9	14161.7
11067.6	22.5°	11262.7	11505.4	11995.3	12628.2	12993.4	13029.7	13022.9	12979.8	12923.1
9609.0	25°	9720.1	9935.6	10405.2	10983.6	11684.6	11788.9	11793.5	11779.9	11729.9
8286.5	27.5°	8418.1	8678.9	8937.5	9454.7	10201.0	10632.0	10577.6	10561.7	10543.6
7170.4	30°	7238.5	7567.4	7810.1	8132.2	8801.4	9384.4	9441.1	9413.9	9370.8
6247.2	32.5°	6303.9	6499.0	6807.5	7025.3	7506.2	8166.3	8384.0	8363.6	8325.1
5414.7	35°	5491.8	5568.9	5811.7	6054.4	6374.2	7013.9	7336.0	7290.7	7283.9
4412.1	37.5°	4523.2	4781.8	4915.6	5160.6	5385.2	5882.0	6326.6	6306.2	6308.4
3547.8	40°	3652.1	3801.9	4067.3	4273.7	4480.1	4843.1	5337.6	5351.2	5346.6
2747.0	42.5°	2803.8	2948.9	3227.9	3452.5	3636.3	3860.8	4332.7	4348.5	4369.0
2139.1	45°	2189.0	2282.0	2486.2	2719.8	2914.9	3051.0	3409.4	3511.5	3513.8
1658.2	47.5°	1699.0	1805.7	1950.8	2175.4	2366.0	2463.5	2724.4	2862.7	2855.9
1272.6	50°	1333.8	1431.4	1549.3	1726.3	1932.7	2009.8	2202.6	2338.7	2331.9
959.5	52.5°	1020.8	1145.5	1249.9	1386.0	1587.9	1653.7	1792.0	1948.6	1925.9
703.2	55°	773.5	900.6	998.1	1111.5	1295.3	1379.2	1474.5	1599.2	1603.8
544.4	57.5°	583.0	714.5	803.0	918.7	1057.1	1150.1	1222.7	1356.5	1354.2
372.0	60°	417.4	530.8	637.4	757.6	864.3	970.9	1020.8	1147.8	1152.4
263.1	62.5°	301.7	408.3	510.4	614.7	710.0	814.4	859.7	959.5	973.1
172.4	65°	211.0	285.8	403.8	483.2	589.8	666.9	725.9	812.1	828.0
102.1	67.5°	136.1	206.4	319.8	390.2	487.7	553.5	614.7	682.8	703.2
65.8	70°	81.7	156.5	238.2	313.0	401.5	460.5	519.5	578.4	589.8
31.8	72.5°	52.2	108.9	172.4	254.1	322.1	385.6	437.8	480.9	446.9
20.4	75°	29.5	74.9	136.1	199.6	260.9	322.1	365.2	387.9	310.8
13.6	77.5°	18.1	54.4	111.2	161.1	201.9	258.6	285.8	299.4	222.3
9.1	80°	11.3	40.8	93.0	131.6	131.6	190.5	222.3	233.6	161.1
6.8	82.5°	9.1	29.5	72.6	99.8	88.5	142.9	174.7	176.9	113.4
4.5	85°	6.8	22.7	45.4	65.8	61.2	99.8	102.1	113.4	74.9
4.5	87.5°	4.5	13.6	27.2	38.6	34.0	47.6	54.4	61.2	40.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21098.5  
*20479.2*  
20136.7  
19635.4  
18696.2  
17686.8  
16516.3  
15345.8  
14057.3  
12814.2  
11562.1  
10437.0  
9316.4  
8223.0  
7209.0  
6235.9  
5267.2  
4300.9  
3454.8  
2831.0  
2331.9  
1928.1  
1603.8  
1349.7  
1141.0  
968.6  
823.4  
700.9  
580.7  
415.1  
294.9  
208.7  
149.7  
104.3  
68.1  
36.3  
0.0

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