

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: P638064

Luminaire Tested: **IFLD-L-SA7C-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638064  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25117 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

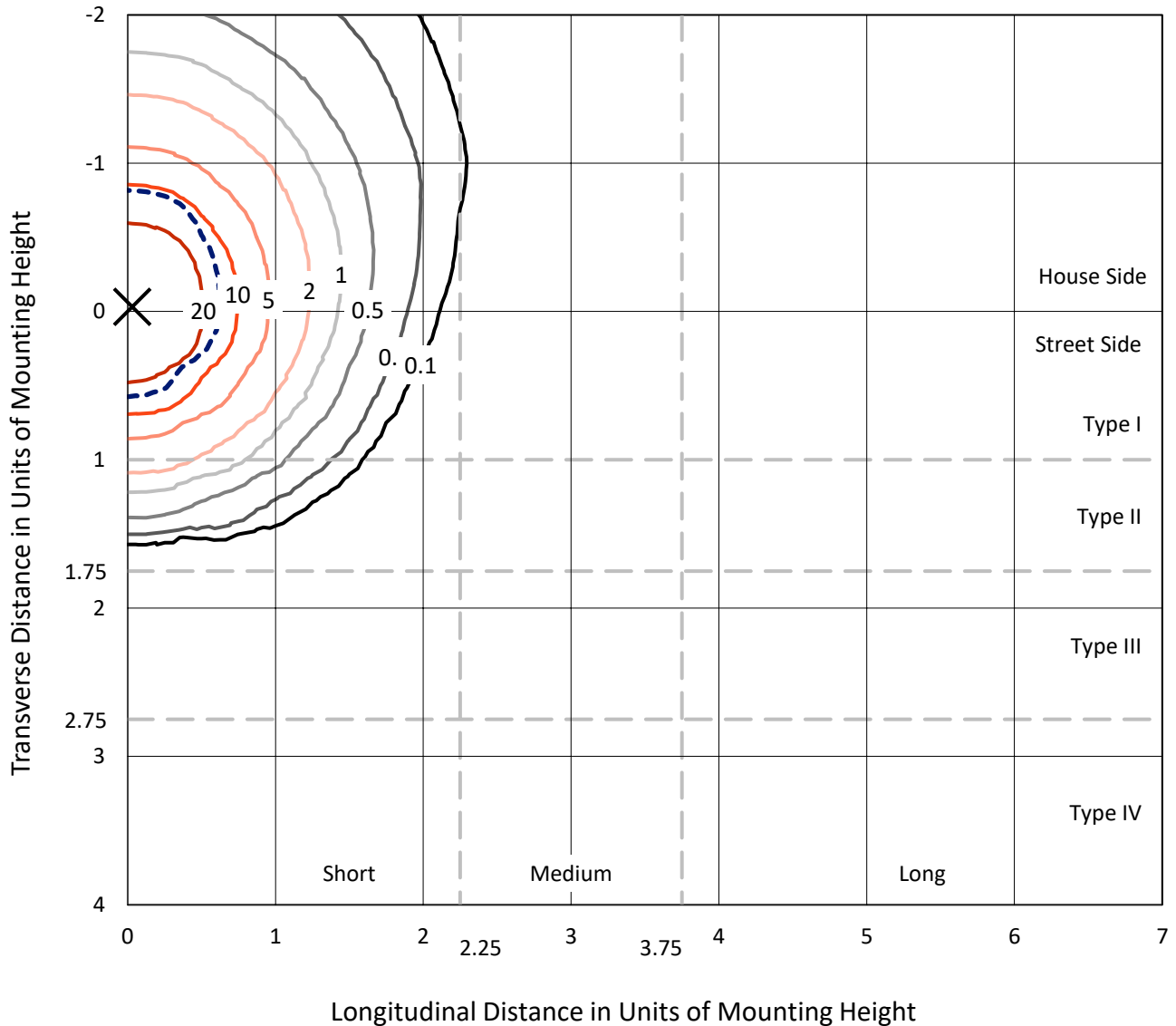
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

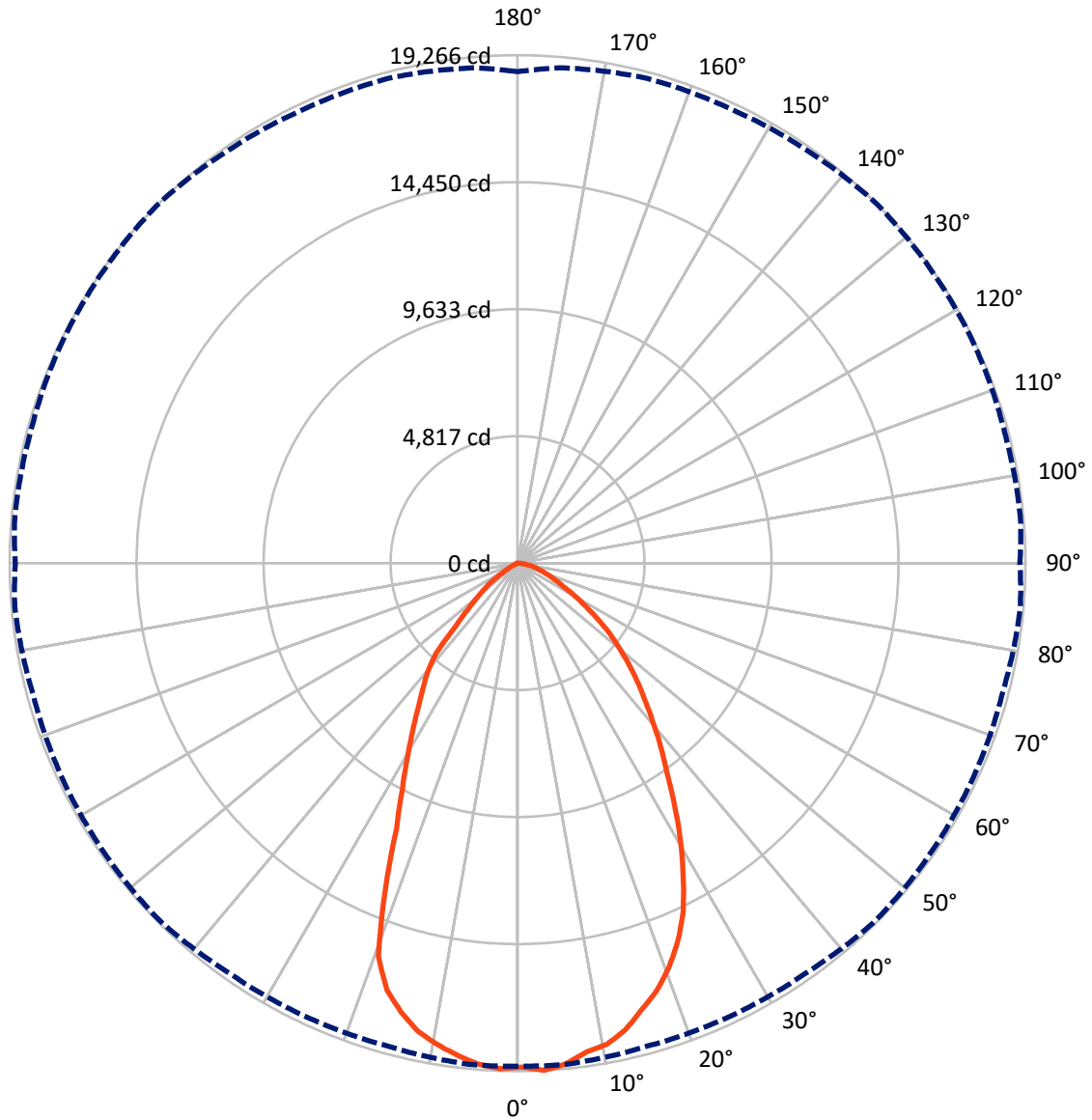
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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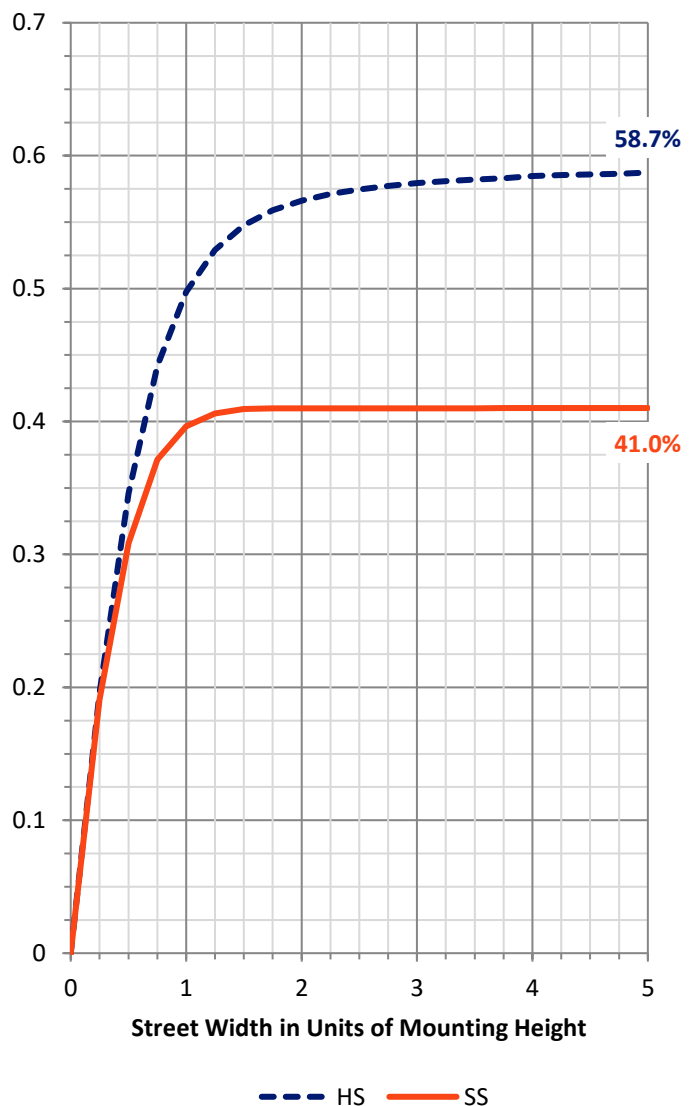
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14875.6	0.0	14875.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10241.4	0.0	10241.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	25117.0	0.0	25117.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1792.6	7.1
10°-20°	4806.9	19.1
20°-30°	5862.3	23.3
30°-40°	5352.2	21.3
40°-50°	3867.9	15.4
50°-60°	2111.9	8.4
60°-70°	873.2	3.5
70°-80°	353.6	1.4
80°-90°	96.2	0.4
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°	25117.0	100.0
0°-180°	25117.0	100.0



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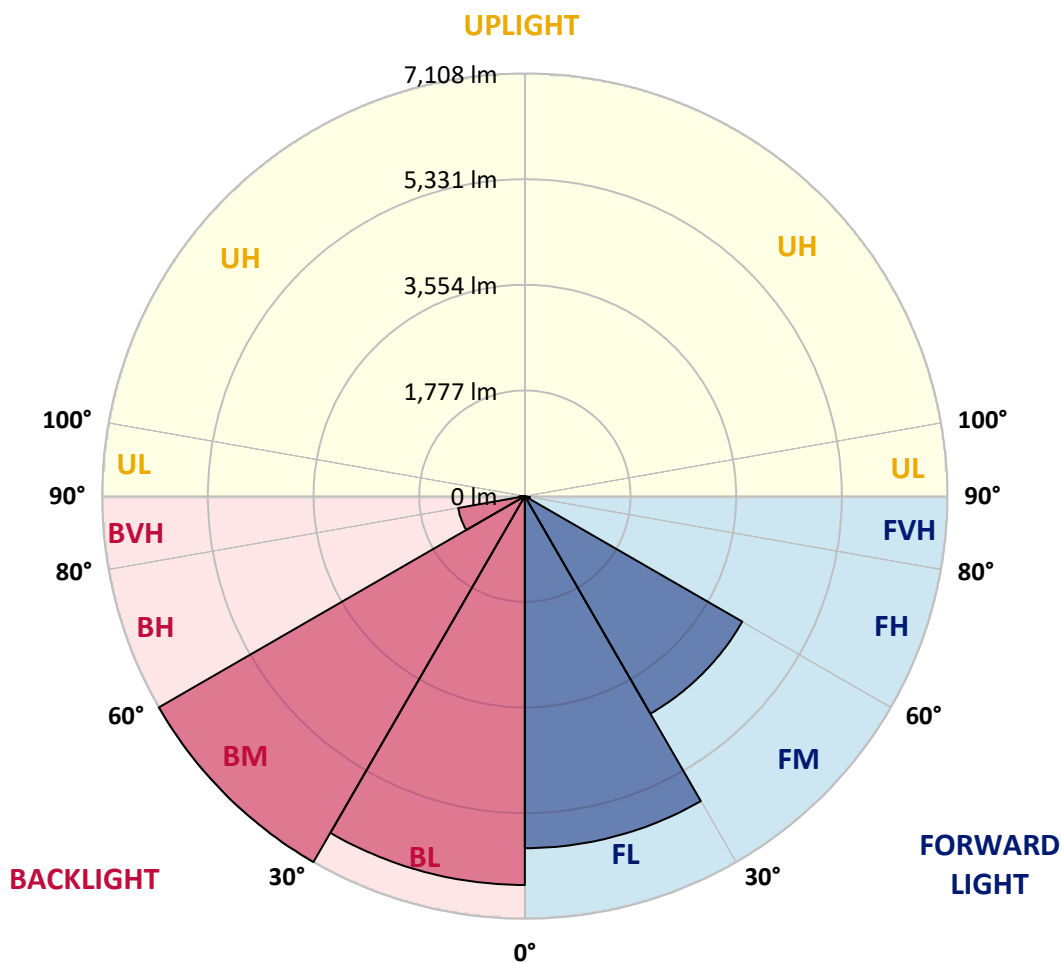
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5921.0	23.6			
FM (30°-60°)	4224.2	16.8			
FH (60°-80°)	88.5	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	6540.8	26.0	B5		
BM (30°-60°)	7107.9	28.3	B4/8500		
BH (60°-80°)	1138.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	88.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0
2.5°	19078.6	19103.4	18969.0	18983.1	19007.9	19188.3	19142.3	19099.8	19039.7	19142.3
5°	19053.9	19068.0	18926.5	18877.0	18898.2	19060.9	18912.4	18912.4	18898.2	18880.5
7.5°	18862.9	18869.9	18760.3	18671.9	18728.4	18802.7	18693.1	18746.1	18668.3	18728.4
10°	18576.4	18530.4	18399.5	18374.7	18438.4	18509.2	18434.9	18484.4	18413.7	18459.6
12.5°	18155.5	18084.7	17978.6	17946.8	18056.4	18151.9	18091.8	18063.5	17971.5	18084.7
15°	16532.0	16478.9	16719.4	17140.3	17518.8	17600.1	17536.5	17564.8	17373.8	17405.6
17.5°	13606.9	13507.8	13766.0	14763.5	16185.3	16935.2	16878.6	16694.7	16411.7	16475.4
20°	12365.4	12337.1	12308.8	12545.8	13539.7	15814.0	15891.8	15424.9	15021.7	14933.2
22.5°	11665.0	11654.4	11626.1	11679.2	11940.9	13401.7	14293.0	13861.5	13592.7	13568.0
25°	11024.8	11007.2	10922.3	10989.5	10989.5	11074.4	12216.8	12478.6	12241.6	12213.3
27.5°	10374.0	10342.2	10328.1	10359.9	10197.2	9624.2	9914.2	11191.1	11067.3	11074.4
30°	9670.2	9659.6	9620.7	9687.9	9185.6	8474.7	8290.7	10023.9	10048.6	10041.6
32.5°	8623.2	8669.2	8846.1	8920.3	8092.7	7505.5	7197.8	8672.7	9178.5	9167.9
35°	6264.0	6264.0	6840.6	7912.3	7091.7	6649.6	6483.3	7353.4	8319.0	8354.4
37.5°	5149.9	5167.6	5280.7	5768.9	6119.0	5963.4	5913.9	6189.8	7215.5	7272.1
40°	4633.5	4633.5	4633.5	4431.9	4421.3	5372.7	5344.4	5256.0	6232.2	6356.0
42.5°	4163.1	4173.7	4180.7	3671.4	3388.5	4644.1	4580.4	4446.0	5351.5	5496.5
45°	3678.5	3696.2	3717.4	3070.1	2946.3	3342.5	3876.6	3728.0	4481.4	4668.8
47.5°	2246.0	2274.3	2755.3	2603.2	2617.4	2578.5	3162.1	3137.3	3674.9	3940.2
50°	1517.4	1528.0	1574.0	1651.8	2246.0	2026.7	2238.9	2596.2	2790.7	3193.9
52.5°	1273.3	1291.0	1177.8	1071.7	1474.9	1584.6	1563.4	1927.7	2005.5	2504.2
55°	894.9	951.5	898.4	887.8	838.3	1230.9	1184.9	1482.0	1531.5	1902.9
57.5°	92.0	106.1	183.9	661.4	548.2	696.8	845.3	1085.9	1135.4	1404.2
60°	7.1	7.1	17.7	92.0	399.7	417.4	583.6	668.5	764.0	979.8
62.5°	0.0	3.5	7.1	14.1	63.7	222.8	293.6	350.2	459.8	633.1
65°	0.0	0.0	3.5	10.6	14.1	84.9	113.2	183.9	251.1	392.6
67.5°	0.0	0.0	3.5	7.1	10.6	21.2	38.9	67.2	134.4	222.8
70°	0.0	0.0	3.5	7.1	10.6	17.7	28.3	42.4	60.1	120.3
72.5°	0.0	0.0	3.5	3.5	7.1	17.7	21.2	28.3	42.4	60.1
75°	0.0	0.0	3.5	3.5	10.6	21.2	17.7	21.2	28.3	38.9
77.5°	0.0	0.0	3.5	7.1	10.6	21.2	17.7	21.2	21.2	24.8
80°	0.0	0.0	3.5	7.1	14.1	24.8	21.2	21.2	17.7	17.7
82.5°	0.0	0.0	3.5	10.6	14.1	31.8	31.8	28.3	14.1	10.6
85°	0.0	0.0	7.1	14.1	21.2	35.4	35.4	28.3	10.6	7.1
87.5°	0.0	0.0	7.1	10.6	17.7	24.8	35.4	28.3	10.6	3.5
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°
19114.0	0°	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0	19114.0
19053.9	2.5°	19149.3	19128.1	19198.9	19227.2	19266.1	19117.5	19025.6	19029.1	18859.3
18838.1	5°	18951.3	18954.8	19046.8	19039.7	19078.6	18997.3	18961.9	18901.8	18753.2
18565.7	7.5°	18700.2	18668.3	18756.7	18823.9	18724.9	18781.5	18700.2	18728.4	18640.0
18325.2	10°	18505.6	18431.3	18512.7	18558.7	18562.2	18505.6	18427.8	18353.5	18321.7
17950.3	12.5°	18074.1	17978.6	18116.5	18180.2	18169.6	18060.0	17971.5	17989.2	17886.6
17292.4	15°	17479.9	17483.4	17582.5	17642.6	17586.0	17561.2	17568.3	17525.9	17437.4
16383.4	17.5°	16570.9	16623.9	16885.7	17030.7	17062.5	17013.0	16988.2	16938.7	16850.3
14933.2	20°	15057.0	15375.4	15842.2	16291.4	16379.9	16365.7	16277.3	16256.1	16206.6
13497.2	22.5°	13727.1	13964.1	14505.3	15205.6	15566.4	15601.7	15495.6	15463.8	15410.7
12213.3	25°	12351.2	12605.9	13094.0	13854.5	14600.8	14752.9	14735.2	14639.7	14583.1
11074.4	27.5°	11191.1	11445.8	11887.9	12574.1	13373.4	13861.5	13907.5	13755.4	13751.9
10059.2	30°	10144.1	10494.3	10830.3	11389.2	12163.8	12895.9	12973.7	12867.6	12878.2
9129.0	32.5°	9323.5	9613.6	9900.1	10275.0	10918.7	11771.2	12075.3	11976.3	11937.4
8354.4	35°	8485.3	8683.3	8976.9	9320.0	9758.6	10603.9	11131.0	11056.7	11017.8
7307.5	37.5°	7530.3	7869.8	8082.1	8467.6	8810.7	9482.7	10225.5	10214.9	10133.5
6416.1	40°	6550.5	6907.8	7229.6	7618.7	7884.0	8418.1	9242.2	9238.7	9249.3
5493.0	42.5°	5662.7	5991.7	6380.8	6805.2	7059.9	7448.9	8333.2	8382.7	8442.8
4732.5	45°	4859.8	5157.0	5517.7	6034.1	6341.9	6564.7	7349.9	7576.3	7572.7
4053.4	47.5°	4138.3	4417.7	4721.9	5224.2	5616.8	5818.4	6469.2	6791.1	6769.8
3324.8	50°	3473.3	3720.9	4039.3	4403.6	4930.6	5107.4	5592.0	6016.4	5984.6
2649.2	52.5°	2794.2	3137.3	3406.1	3738.6	4293.9	4467.2	4842.2	5256.0	5231.2
1987.8	55°	2178.8	2511.3	2836.7	3123.2	3590.1	3848.3	4117.1	4541.5	4534.4
1556.3	57.5°	1648.2	2012.6	2320.3	2592.6	2964.0	3282.3	3498.1	3883.6	3933.2
1064.6	60°	1220.3	1499.7	1832.2	2136.4	2429.9	2758.9	2903.9	3282.3	3303.6
728.6	62.5°	831.2	1138.9	1464.3	1740.2	1959.5	2299.1	2429.9	2741.2	2780.1
466.9	65°	576.5	774.6	1146.0	1344.1	1612.9	1902.9	2033.8	2281.4	2359.2
268.8	67.5°	382.0	551.8	894.9	1075.2	1340.5	1538.6	1704.8	1906.4	1991.3
169.8	70°	208.7	406.8	640.2	848.9	1078.8	1269.8	1432.5	1595.2	1669.5
77.8	72.5°	141.5	272.3	445.7	672.0	870.1	1057.6	1202.6	1322.8	1326.4
46.0	75°	70.7	183.9	339.6	519.9	679.1	863.0	993.9	1064.6	979.8
28.3	77.5°	42.4	134.4	275.9	417.4	551.8	696.8	771.1	810.0	672.0
21.2	80°	24.8	95.5	215.8	332.5	382.0	512.9	583.6	594.2	449.2
14.1	82.5°	17.7	70.7	169.8	244.1	233.4	360.8	438.6	424.4	286.5
10.6	85°	10.6	49.5	106.1	152.1	141.5	237.0	254.7	261.7	166.2
7.1	87.5°	7.1	28.3	56.6	81.4	67.2	102.6	102.6	123.8	81.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
19114.0
<i>18640.0</i>
18717.8
18491.5
18180.2
17798.2
17349.0
16811.4
16093.4
15396.6
14522.9
13744.8
12825.2
11940.9
10964.7
10200.7
9249.3
8411.0
7579.8
6776.9
6012.9
5284.3
4552.1
3911.9
3335.4
2787.2
2341.5
1980.7
1641.2
1294.5
916.1
647.3
420.9
265.3
152.1
70.7
0.0

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