

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: P637512

Luminaire Tested: **IFLD-L-SA7B-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27292.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

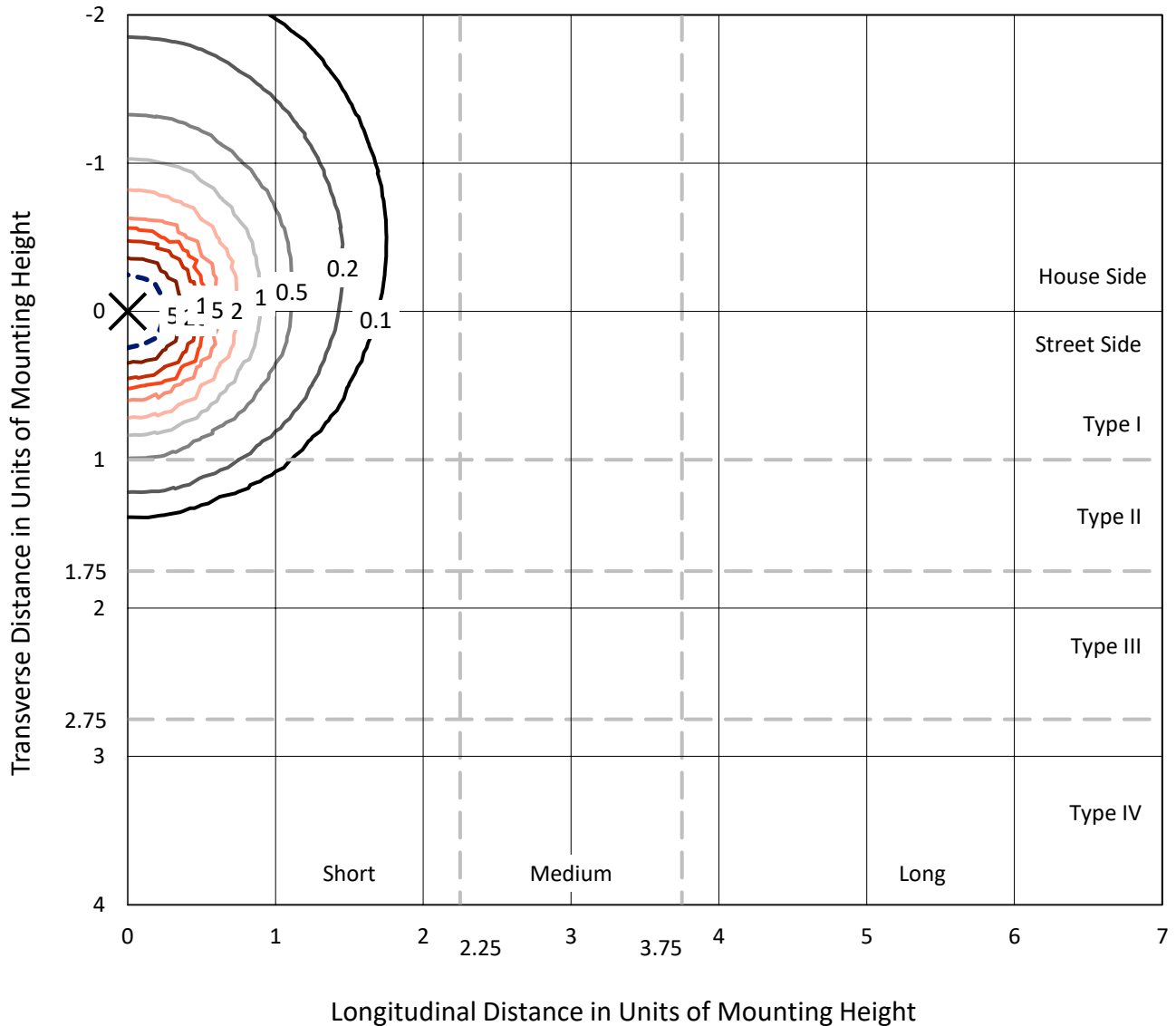
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

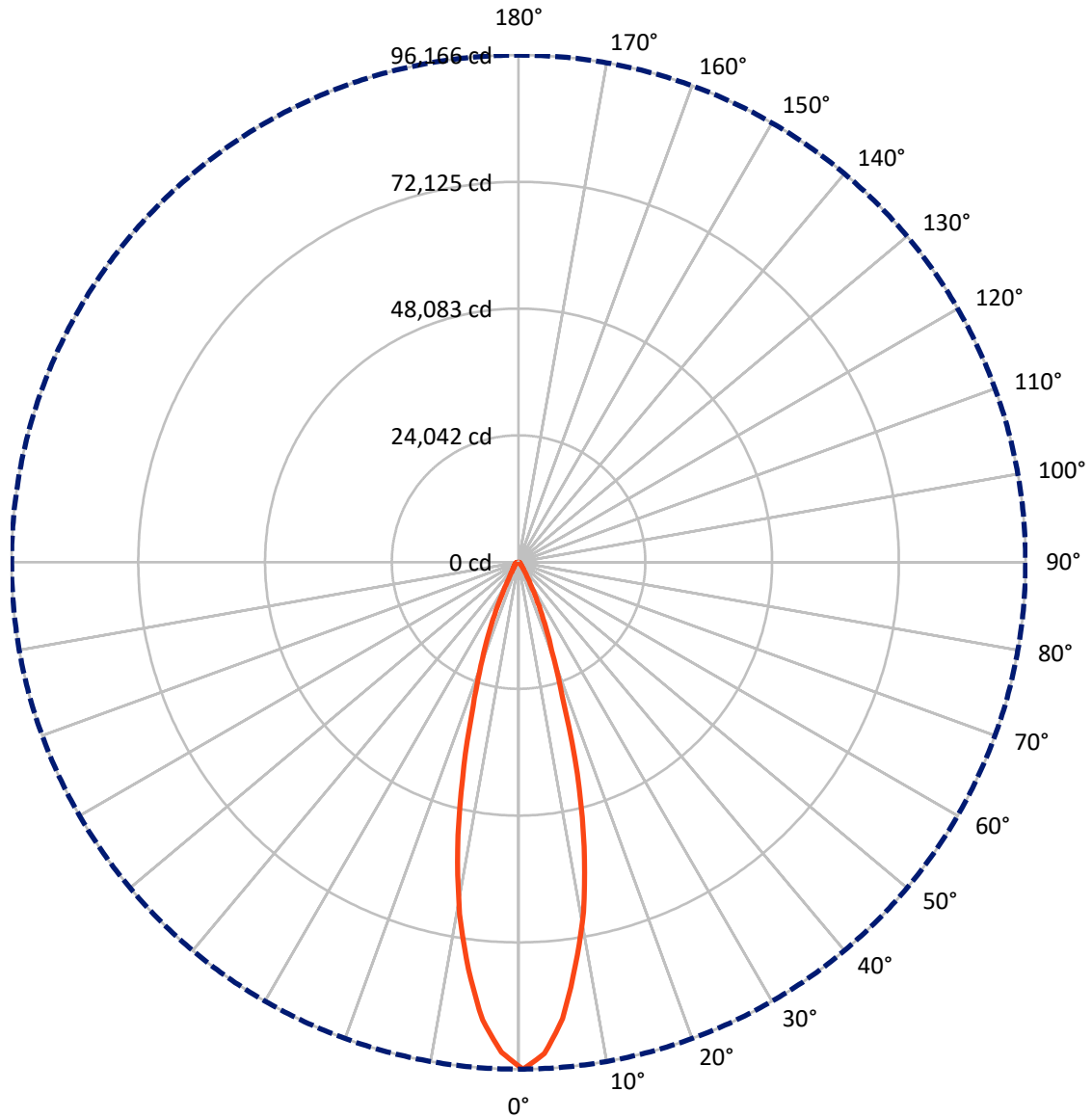
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 240.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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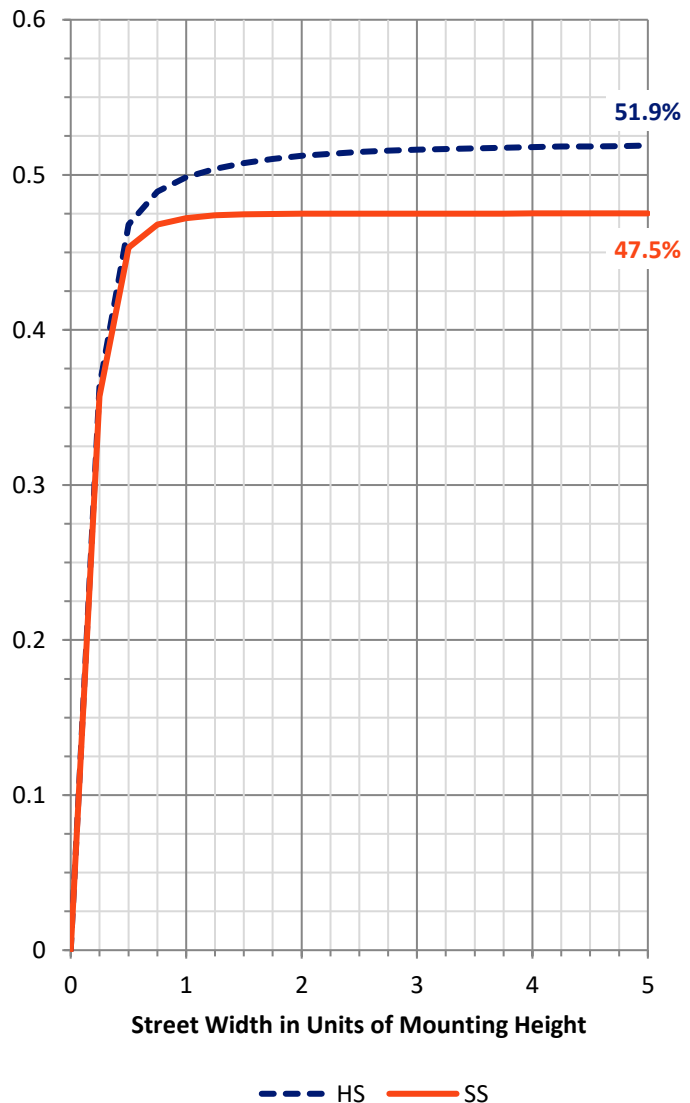
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14390.3	0.0	14390.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12902.0	0.0	12902.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	27292.3	0.0	27292.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7761.5	28.4
10°-20°	11754.7	43.1
20°-30°	4960.5	18.2
30°-40°	1293.8	4.7
40°-50°	654.4	2.4
50°-60°	427.7	1.6
60°-70°	256.3	0.9
70°-80°	134.8	0.5
80°-90°	48.7	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°	27292.3	100.0
0°-180°	27292.3	100.0



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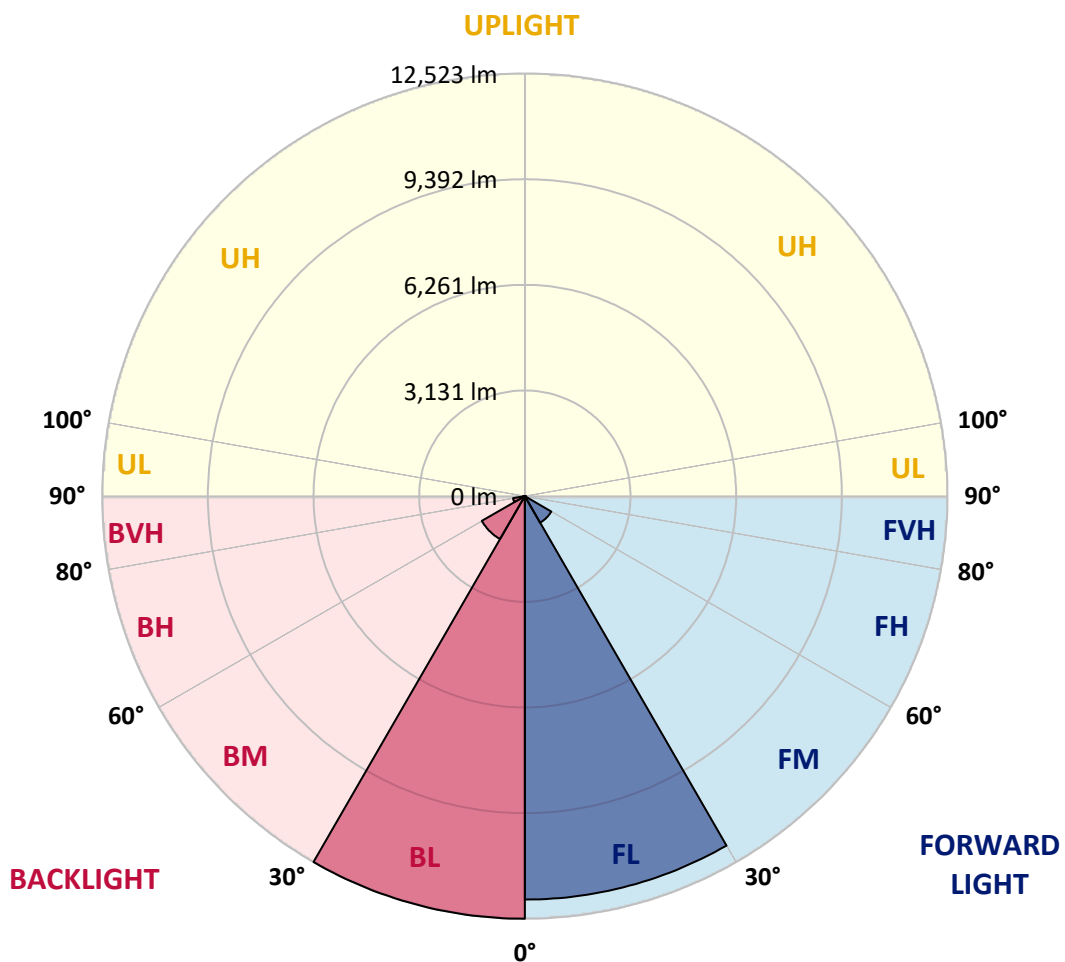
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11953.9	43.8			
FM (30°-60°)	905.3	3.3			
FH (60°-80°)	36.9	0.1			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	12522.9	45.9	B5		
BM (30°-60°)	1470.5	5.4	B2/2500		
BH (60°-80°)	354.2	1.3	B1/500		G0/660
BVH (80°-90°)	42.8	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3
2.5°	93365.0	93417.1	93224.0	93640.8	93315.9	94186.4	93754.2	94428.5	94201.7	94578.7
5°	86989.8	86904.0	86848.8	87495.6	87308.6	88243.4	87645.7	87449.6	88056.4	87946.1
7.5°	77362.8	77589.6	77460.9	77629.4	77724.4	78791.1	79128.2	78864.6	78873.8	79027.1
10°	67493.6	67159.5	66684.4	67000.1	67668.3	68134.2	67947.2	68333.4	68247.6	68612.3
12.5°	55350.2	55613.8	55347.1	55065.2	56232.9	56104.2	56429.1	56640.6	56110.3	57290.3
15°	41692.7	41830.6	42155.5	42134.1	43032.1	43212.9	43170.0	43393.8	42980.0	43176.2
17.5°	26784.7	27250.6	28124.1	29601.4	31262.6	31455.7	31406.7	31222.8	31023.6	30802.9
20°	17991.3	17942.3	18258.0	18690.2	22129.0	23039.3	23011.8	22435.5	21601.9	21442.5
22.5°	12603.1	12695.1	12652.2	13081.3	13792.3	16302.5	15993.0	15407.6	15134.8	14957.0
25°	8290.7	8257.0	8471.6	8600.3	9210.2	9516.7	10601.7	10384.1	9964.2	10010.2
27.5°	5054.1	5097.0	5176.7	5287.1	5719.2	5621.1	6240.3	6323.0	6188.2	6044.1
30°	3101.7	3132.4	3196.8	3276.4	3426.6	3319.4	3491.0	3788.3	3739.3	3638.1
32.5°	2105.6	2108.7	2154.7	2185.3	2166.9	2065.8	2121.0	2402.9	2409.1	2399.9
35°	1514.1	1514.1	1557.0	1581.5	1529.4	1446.7	1455.9	1630.6	1707.2	1722.5
37.5°	1045.2	1048.2	1121.8	1195.3	1137.1	1115.6	1078.9	1195.3	1317.9	1336.3
40°	793.8	790.8	827.5	882.7	888.8	849.0	861.3	934.8	1060.5	1075.8
42.5°	643.6	646.7	665.1	659.0	662.0	714.1	732.5	766.2	882.7	910.3
45°	542.5	545.6	554.8	524.1	511.8	591.5	616.1	634.4	732.5	766.2
47.5°	447.5	453.6	462.8	429.1	423.0	475.1	518.0	536.4	622.2	659.0
50°	321.8	328.0	361.7	343.3	361.7	373.9	432.2	459.7	518.0	567.0
52.5°	232.9	239.1	248.3	251.3	297.3	303.4	346.3	389.3	416.8	472.0
55°	183.9	190.0	183.9	177.8	217.6	251.3	266.7	312.6	334.1	398.4
57.5°	104.2	110.3	119.5	137.9	144.1	193.1	208.4	248.3	266.7	328.0
60°	18.4	21.5	33.7	82.8	101.1	122.6	156.3	190.0	214.5	257.5
62.5°	3.1	3.1	6.1	18.4	58.2	85.8	113.4	134.9	156.3	196.2
65°	0.0	0.0	3.1	6.1	15.3	49.0	61.3	79.7	107.3	141.0
67.5°	0.0	0.0	3.1	6.1	9.2	18.4	27.6	49.0	61.3	95.0
70°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	21.5	36.8	58.2
72.5°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	18.4	18.4	36.8
75°	0.0	0.0	3.1	6.1	9.2	15.3	18.4	18.4	15.3	15.3
77.5°	0.0	0.0	3.1	6.1	12.3	18.4	21.5	18.4	12.3	12.3
80°	0.0	0.0	6.1	9.2	15.3	21.5	27.6	21.5	12.3	6.1
82.5°	0.0	0.0	6.1	12.3	15.3	24.5	33.7	27.6	12.3	6.1
85°	0.0	0.0	3.1	9.2	18.4	24.5	33.7	24.5	12.3	3.1
87.5°	0.0	0.0	3.1	3.1	6.1	9.2	18.4	15.3	6.1	3.1
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°
96166.3	0°	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3	96166.3
93864.5	2.5°	94404.0	94894.4	94995.5	94860.7	95056.8	94704.4	94434.6	93735.8	93315.9
87912.4	5°	88479.4	88405.8	88917.7	89086.3	89064.8	88795.1	88418.1	87995.1	87584.4
78729.8	7.5°	79220.1	79315.2	79781.0	80078.3	79928.2	79591.0	79330.5	79011.7	78735.9
68744.1	10°	69372.4	68719.6	69298.9	69298.9	69700.4	68747.2	68836.0	68033.0	68069.8
57268.9	12.5°	57465.0	57701.0	57796.0	58068.8	57599.9	57094.2	56475.0	56352.4	55969.3
42802.2	15°	43418.3	44092.6	43513.3	44503.3	44025.2	43498.0	43403.0	42452.8	42753.2
31045.0	17.5°	30891.8	31636.6	31869.5	32436.5	32001.3	31688.7	31293.3	31005.2	30983.7
21733.7	20°	21905.3	22653.2	22824.8	23505.2	23456.2	23358.1	23024.0	22659.3	22263.9
14794.6	22.5°	15018.3	15628.3	16198.3	17114.8	17099.4	16811.3	16777.6	16262.7	16271.9
9994.9	25°	10099.1	10543.5	10678.3	11616.2	11720.4	11689.8	11515.1	11036.9	11217.8
6105.4	27.5°	6111.5	6500.8	6957.5	7288.5	7601.1	7552.1	7377.4	7110.7	6994.2
3668.8	30°	3766.8	3941.5	4110.1	4508.6	4695.5	4793.6	4710.9	4462.6	4481.0
2415.2	32.5°	2467.3	2614.4	2737.0	2988.3	3086.4	3267.3	3233.5	3181.4	3120.1
1737.8	35°	1799.1	1906.4	1989.2	2105.6	2231.3	2384.5	2409.1	2387.6	2363.1
1342.5	37.5°	1373.1	1483.4	1578.5	1627.5	1725.6	1845.1	1912.5	1909.5	1891.1
1094.2	40°	1115.6	1198.4	1284.2	1348.6	1416.0	1504.9	1587.7	1596.8	1596.8
919.5	42.5°	931.7	1002.2	1088.1	1155.5	1204.5	1287.3	1373.1	1379.2	1373.1
778.5	45°	796.9	858.2	940.9	1020.6	1060.5	1121.8	1204.5	1222.9	1210.7
668.2	47.5°	692.7	747.9	818.3	904.2	947.1	1002.2	1078.9	1100.3	1097.3
576.2	50°	594.6	659.0	729.5	800.0	855.1	907.2	980.8	1005.3	996.1
490.4	52.5°	524.1	582.3	643.6	720.3	784.6	830.6	888.8	931.7	919.5
413.8	55°	438.3	508.8	573.1	637.5	717.2	766.2	821.4	873.5	861.3
349.4	57.5°	380.1	438.3	511.8	570.1	649.8	708.0	763.2	818.3	815.3
285.0	60°	318.8	380.1	450.5	511.8	585.4	649.8	704.9	766.2	772.4
214.5	62.5°	251.3	324.9	386.2	456.7	530.2	600.7	649.8	711.1	720.3
162.4	65°	190.0	266.7	334.1	401.5	475.1	551.7	594.6	646.7	655.9
119.5	67.5°	141.0	205.4	285.0	346.3	423.0	496.5	536.4	579.3	594.6
73.6	70°	107.3	156.3	239.1	297.3	377.0	435.2	478.1	514.9	527.2
49.0	72.5°	67.4	122.6	193.1	254.4	324.9	377.0	407.6	429.1	447.5
27.6	75°	46.0	95.0	156.3	217.6	269.7	309.6	337.1	355.5	370.9
12.3	77.5°	27.6	73.6	128.7	180.8	214.5	245.2	272.8	285.0	294.2
9.2	80°	15.3	55.2	107.3	147.1	168.6	190.0	211.5	226.8	232.9
6.1	82.5°	9.2	42.9	85.8	113.4	122.6	144.1	165.5	174.7	174.7
3.1	85°	6.1	30.6	58.2	82.8	88.9	104.2	110.3	116.5	122.6
3.1	87.5°	6.1	18.4	36.8	46.0	49.0	55.2	58.2	64.4	70.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
96166.3
93006.4
87124.7
77801.1
67711.2
55619.9
42452.8
30413.6
22092.3
16094.1
10932.7
6893.1
4401.3
3098.7
2353.9
1881.9
1578.5
1367.0
1210.7
1091.1
990.0
916.4
867.4
818.3
775.4
726.4
665.1
600.7
533.3
444.4
367.8
291.2
226.8
171.6
119.5
67.4
0.0

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