

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: P637480

Luminaire Tested: **IFLD-M-SA4D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637480
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22180 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

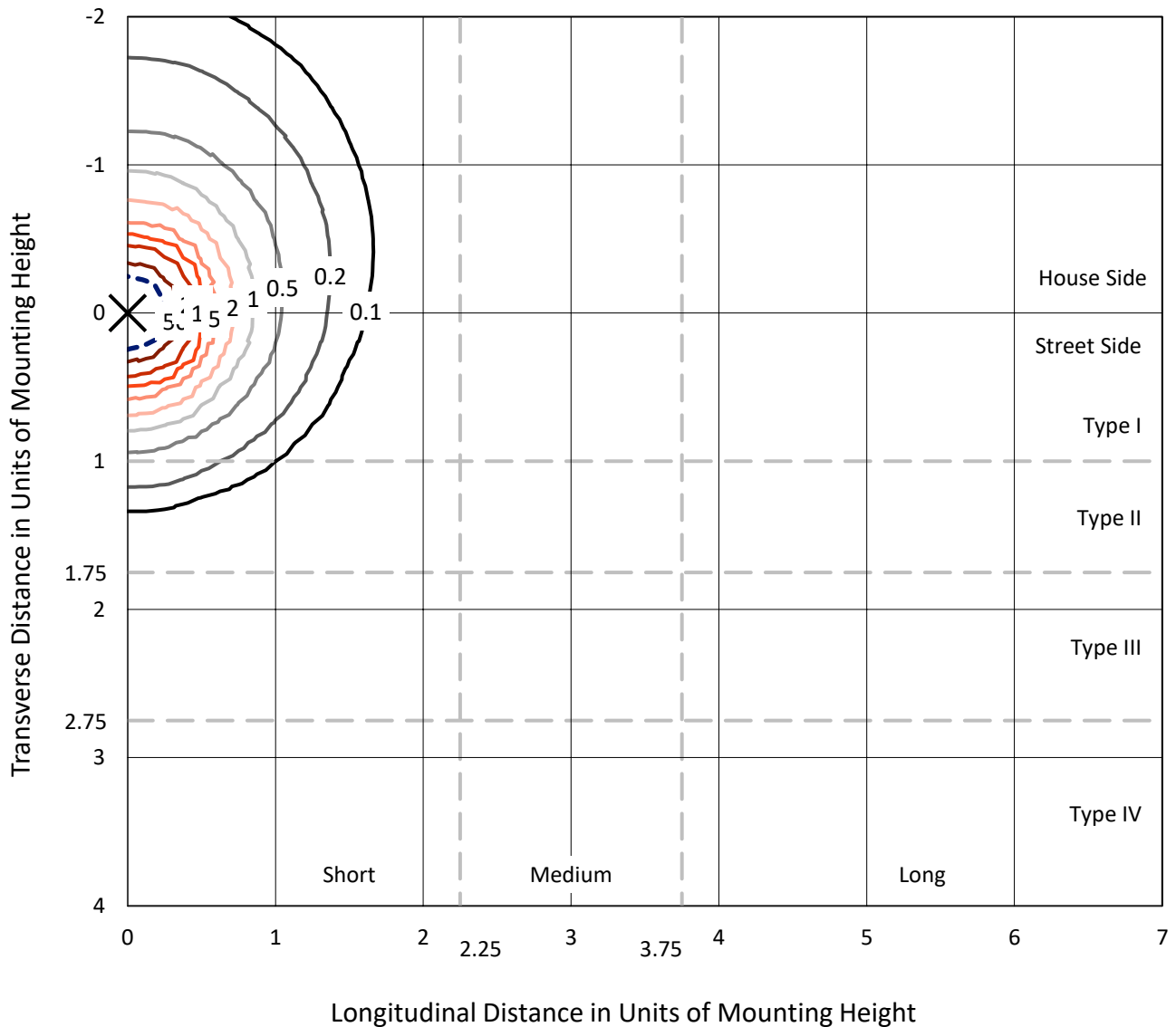
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

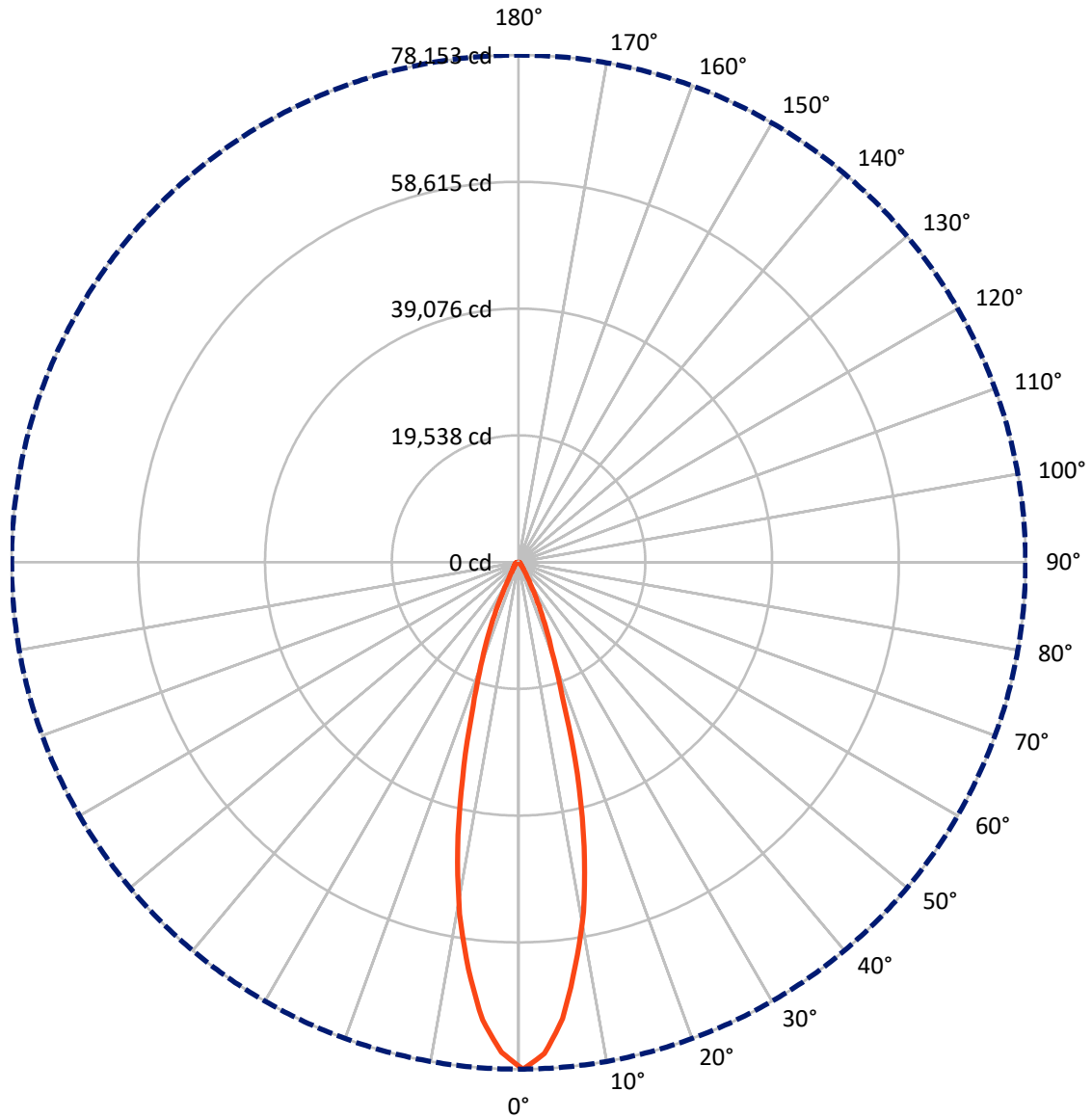
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 195.4 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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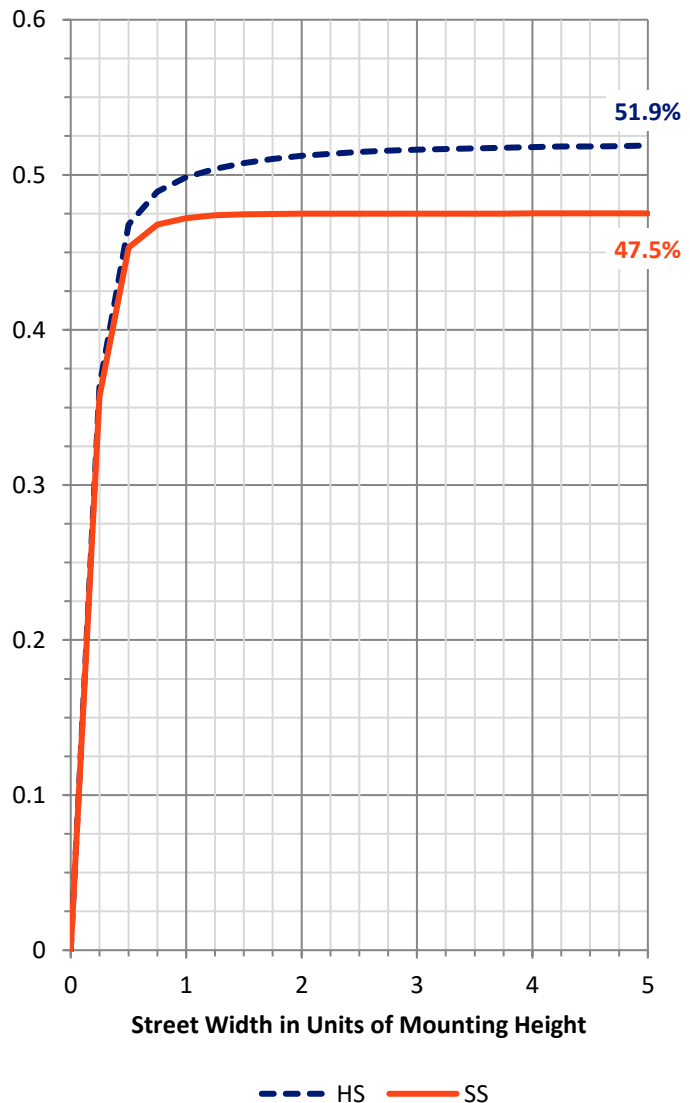
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11694.8	0.0	11694.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10485.2	0.0	10485.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	22180.0	0.0	22180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6307.6	28.4
10°-20°	9552.9	43.1
20°-30°	4031.4	18.2
30°-40°	1051.4	4.7
40°-50°	531.8	2.4
50°-60°	347.6	1.6
60°-70°	208.3	0.9
70°-80°	109.6	0.5
80°-90°	39.6	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°	22180.0	100.0
0°-180°	22180.0	100.0



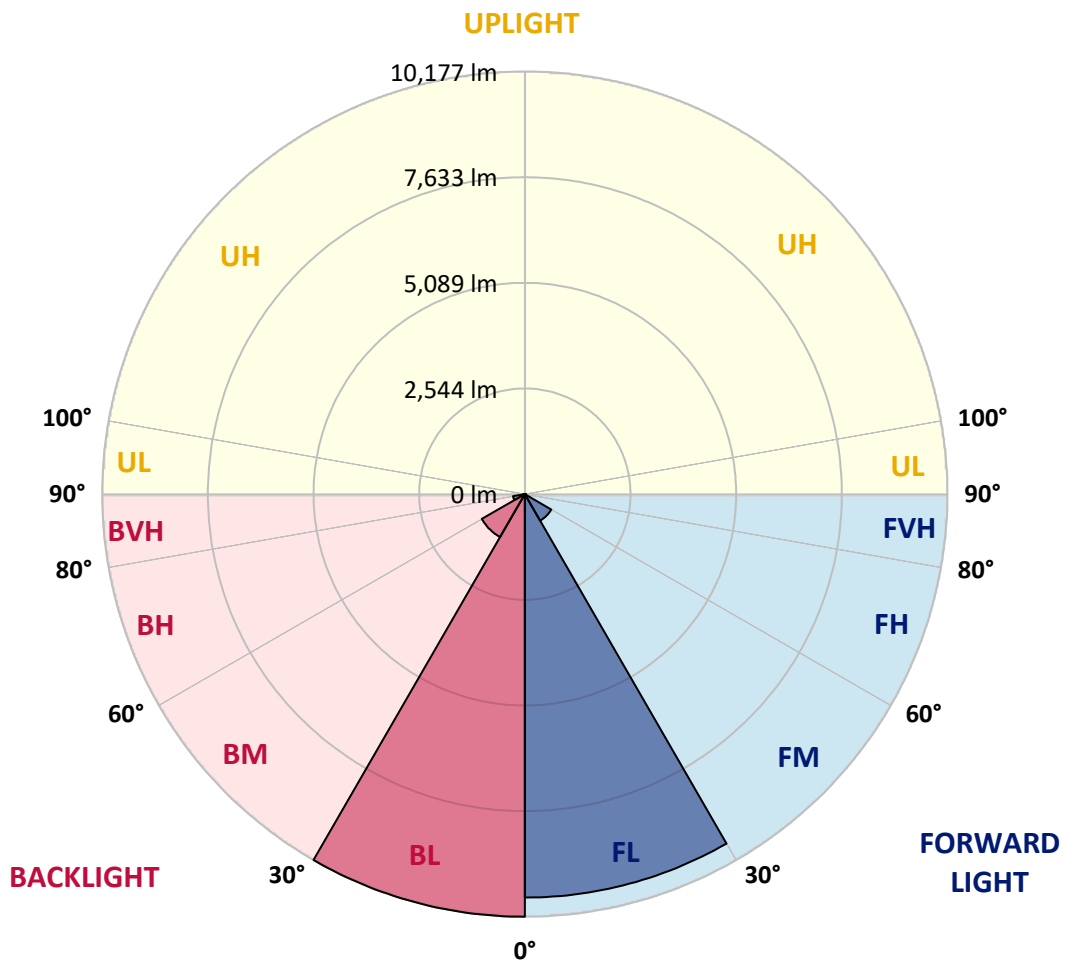
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9714.7	43.8			
FM (30°-60°)	735.7	3.3			
FH (60°-80°)	30.0	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10177.1	45.9	B5		
BM (30°-60°)	1195.1	5.4	B2/2500		
BH (60°-80°)	287.8	1.3	B1/500		G0/660
BVH (80°-90°)	34.8	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°	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9
2.5°	75876.2	75918.6	75761.6	76100.4	75836.4	76543.8	76192.6	76740.6	76556.2	76862.6
5°	70695.3	70625.5	70580.7	71106.3	70954.3	71714.0	71228.3	71068.9	71562.1	71472.4
7.5°	62871.5	63055.8	62951.2	63088.2	63165.4	64032.2	64306.2	64092.0	64099.5	64224.0
10°	54851.0	54579.5	54193.4	54449.9	54993.0	55371.6	55219.6	55533.5	55463.7	55760.1
12.5°	44982.2	45196.4	44979.7	44750.6	45699.6	45595.0	45859.0	46030.9	45600.0	46558.9
15°	33883.0	33995.1	34259.1	34241.7	34971.5	35118.5	35083.6	35265.4	34929.2	35088.6
17.5°	21767.5	22146.1	22856.0	24056.6	25406.7	25563.6	25523.7	25374.3	25212.4	25033.0
20°	14621.3	14581.4	14838.0	15189.2	17983.9	18723.7	18701.3	18233.0	17555.5	17426.0
22.5°	10242.4	10317.1	10282.2	10630.9	11208.8	13248.8	12997.2	12521.5	12299.8	12155.3
25°	6737.7	6710.3	6884.7	6989.3	7485.0	7734.1	8615.8	8439.0	8097.7	8135.1
27.5°	4107.4	4142.3	4207.0	4296.7	4647.9	4568.2	5071.4	5138.6	5029.0	4912.0
30°	2520.7	2545.6	2598.0	2662.7	2784.8	2697.6	2837.1	3078.7	3038.8	2956.6
32.5°	1711.2	1713.7	1751.1	1776.0	1761.0	1678.8	1723.7	1952.8	1957.8	1950.3
35°	1230.5	1230.5	1265.4	1285.3	1242.9	1175.7	1183.2	1325.1	1387.4	1399.9
37.5°	849.4	851.9	911.7	971.4	924.1	906.7	876.8	971.4	1071.1	1086.0
40°	645.1	642.6	672.5	717.4	722.3	690.0	699.9	759.7	861.8	874.3
42.5°	523.1	525.6	540.5	535.5	538.0	580.4	595.3	622.7	717.4	739.8
45°	440.9	443.4	450.8	425.9	416.0	480.7	500.7	515.6	595.3	622.7
47.5°	363.7	368.6	376.1	348.7	343.7	386.1	421.0	435.9	505.6	535.5
50°	261.5	266.5	293.9	279.0	293.9	303.9	351.2	373.6	421.0	460.8
52.5°	189.3	194.3	201.8	204.2	241.6	246.6	281.5	316.3	338.8	383.6
55°	149.5	154.4	149.5	144.5	176.9	204.2	216.7	254.1	271.5	323.8
57.5°	84.7	89.7	97.1	112.1	117.1	156.9	169.4	201.8	216.7	266.5
60°	14.9	17.4	27.4	67.3	82.2	99.6	127.0	154.4	174.4	209.2
62.5°	2.5	2.5	5.0	14.9	47.3	69.7	92.2	109.6	127.0	159.4
65°	0.0	0.0	2.5	5.0	12.5	39.9	49.8	64.8	87.2	114.6
67.5°	0.0	0.0	2.5	5.0	7.5	14.9	22.4	39.9	49.8	77.2
70°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	17.4	29.9	47.3
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	14.9	14.9	29.9
75°	0.0	0.0	2.5	5.0	7.5	12.5	14.9	14.9	12.5	12.5
77.5°	0.0	0.0	2.5	5.0	10.0	14.9	17.4	14.9	10.0	10.0
80°	0.0	0.0	5.0	7.5	12.5	17.4	22.4	17.4	10.0	5.0
82.5°	0.0	0.0	5.0	10.0	12.5	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	14.9	19.9	27.4	19.9	10.0	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	14.9	12.5	5.0	2.5
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°
78152.9	0°	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9	78152.9
76282.2	2.5°	76720.6	77119.2	77201.4	77091.8	77251.2	76964.7	76745.5	76177.6	75836.4
71445.0	5°	71905.8	71846.0	72262.0	72399.0	72381.6	72162.4	71856.0	71512.3	71178.5
63982.4	7.5°	64381.0	64458.2	64836.8	65078.4	64956.3	64682.4	64470.6	64211.6	63987.4
55867.2	10°	56377.9	55847.3	56318.1	56318.1	56644.4	55869.7	55942.0	55289.4	55319.3
46541.5	12.5°	46700.9	46892.7	46969.9	47191.6	46810.5	46399.5	45896.4	45796.7	45485.4
34784.7	15°	35285.4	35833.3	35362.6	36167.1	35778.5	35350.1	35272.9	34500.7	34744.8
25229.8	17.5°	25105.3	25710.5	25899.8	26360.6	26006.9	25752.9	25431.6	25197.4	25180.0
17662.6	20°	17802.1	18409.9	18549.3	19102.3	19062.5	18982.8	18711.3	18414.8	18093.5
12023.3	22.5°	12205.2	12700.8	13164.1	13908.9	13896.4	13662.3	13634.9	13216.4	13223.9
8122.7	25°	8207.3	8568.5	8678.1	9440.3	9525.0	9500.1	9358.1	8969.5	9116.5
4961.8	27.5°	4966.8	5283.1	5654.2	5923.2	6177.3	6137.5	5995.5	5778.8	5684.1
2981.5	30°	3061.3	3203.2	3340.2	3664.0	3816.0	3895.7	3828.4	3626.7	3641.6
1962.8	32.5°	2005.1	2124.7	2224.3	2428.6	2508.3	2655.2	2627.8	2585.5	2535.7
1412.3	35°	1462.1	1549.3	1616.6	1711.2	1813.3	1937.9	1957.8	1940.4	1920.4
1091.0	37.5°	1115.9	1205.6	1282.8	1322.6	1402.3	1499.5	1554.3	1551.8	1536.9
889.2	40°	906.7	973.9	1043.7	1096.0	1150.8	1223.0	1290.3	1297.7	1297.7
747.3	42.5°	757.2	814.5	884.3	939.0	978.9	1046.2	1115.9	1120.9	1115.9
632.7	45°	647.6	697.4	764.7	829.5	861.8	911.7	978.9	993.8	983.9
543.0	47.5°	562.9	607.8	665.1	734.8	769.7	814.5	876.8	894.2	891.7
468.3	50°	483.2	535.5	592.8	650.1	694.9	737.3	797.1	817.0	809.5
398.5	52.5°	425.9	473.3	523.1	585.3	637.7	675.0	722.3	757.2	747.3
336.3	55°	356.2	413.5	465.8	518.1	582.9	622.7	667.5	709.9	699.9
284.0	57.5°	308.9	356.2	416.0	463.3	528.1	575.4	620.2	665.1	662.6
231.6	60°	259.0	308.9	366.2	416.0	475.8	528.1	572.9	622.7	627.7
174.4	62.5°	204.2	264.0	313.8	371.1	430.9	488.2	528.1	577.9	585.3
132.0	65°	154.4	216.7	271.5	326.3	386.1	448.4	483.2	525.6	533.0
97.1	67.5°	114.6	166.9	231.6	281.5	343.7	403.5	435.9	470.8	483.2
59.8	70°	87.2	127.0	194.3	241.6	306.4	353.7	388.6	418.5	428.4
39.9	72.5°	54.8	99.6	156.9	206.7	264.0	306.4	331.3	348.7	363.7
22.4	75°	37.4	77.2	127.0	176.9	219.2	251.6	274.0	288.9	301.4
10.0	77.5°	22.4	59.8	104.6	147.0	174.4	199.3	221.7	231.6	239.1
7.5	80°	12.5	44.8	87.2	119.6	137.0	154.4	171.9	184.3	189.3
5.0	82.5°	7.5	34.9	69.7	92.2	99.6	117.1	134.5	142.0	142.0
2.5	85°	5.0	24.9	47.3	67.3	72.2	84.7	89.7	94.7	99.6
2.5	87.5°	5.0	14.9	29.9	37.4	39.9	44.8	47.3	52.3	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
78152.9
75584.8
70804.9
63227.7
55027.8
45201.4
34500.7
24716.7
17954.0
13079.4
8884.9
5601.9
3576.9
2518.2
1913.0
1529.4
1282.8
1110.9
983.9
886.7
804.5
744.8
704.9
665.1
630.2
590.3
540.5
488.2
433.4
361.2
298.9
236.6
184.3
139.5
97.1
54.8
0.0

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