

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: P637276

Luminaire Tested: **IFLD-M-SA4C-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637276
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-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20198.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

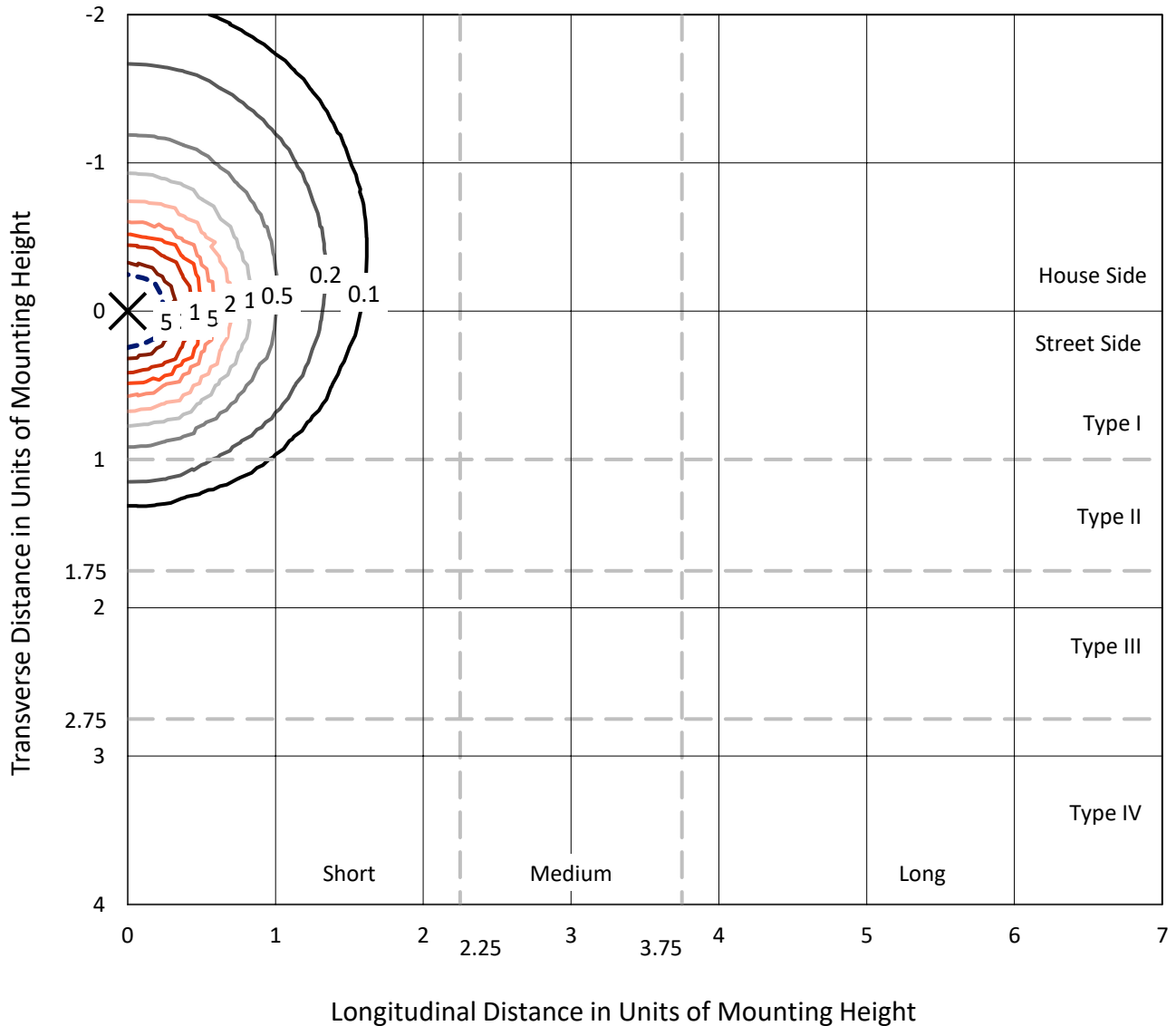
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

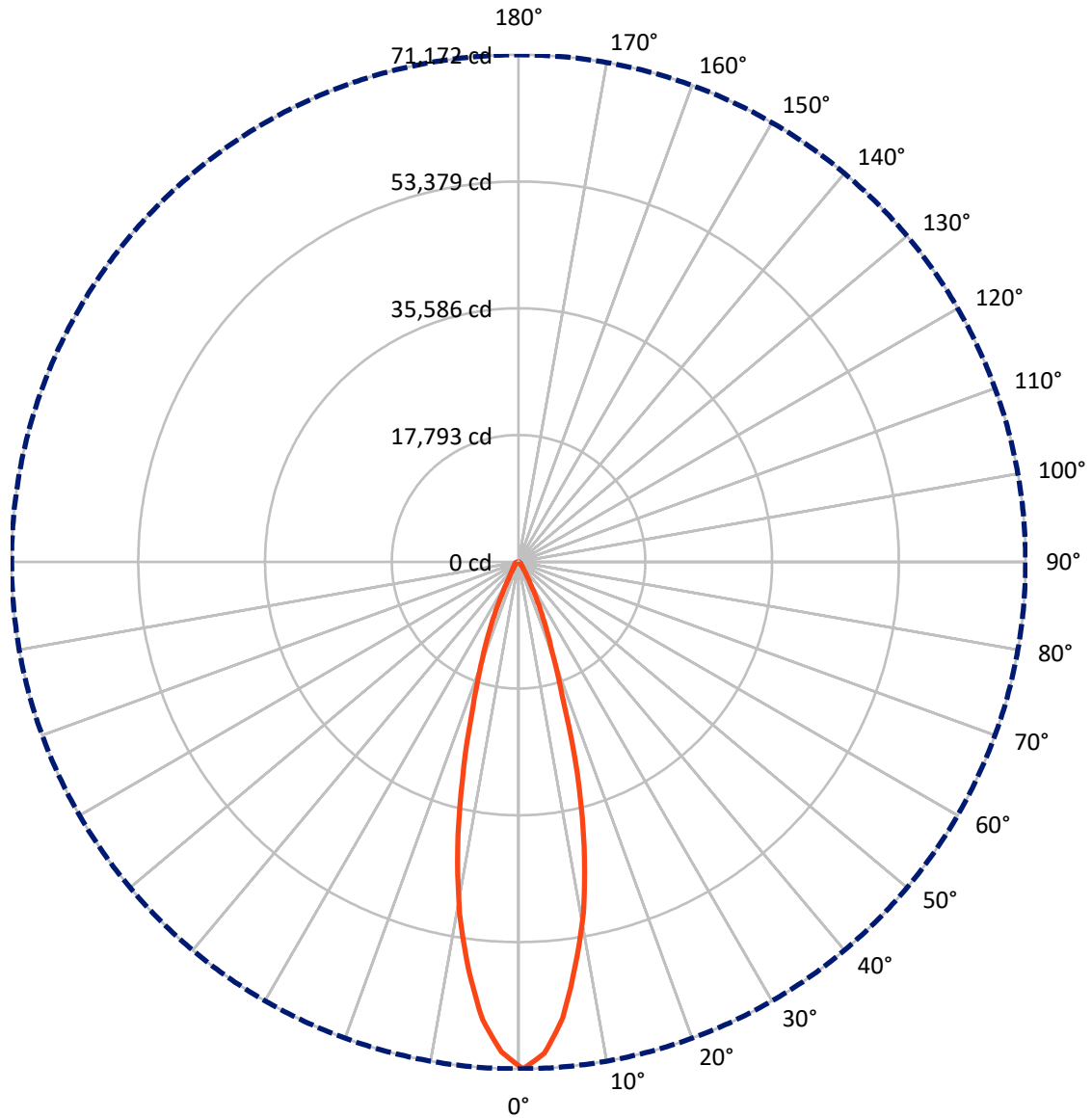
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 177.9 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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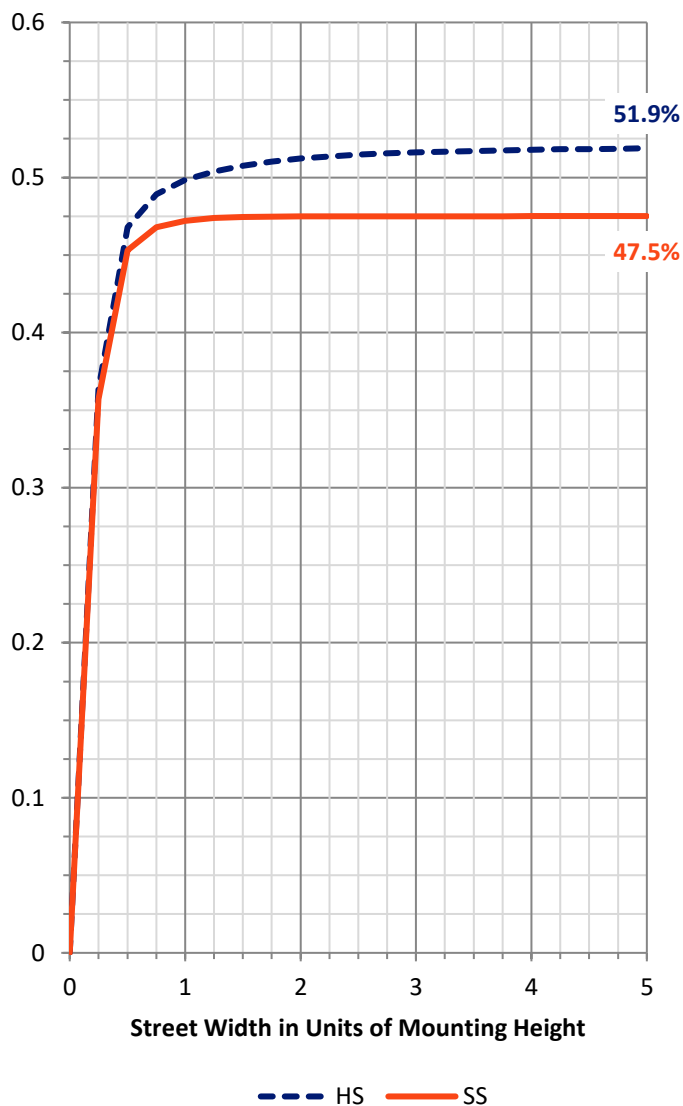
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10650.2	0.0	10650.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9548.7	0.0	9548.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	20198.9	0.0	20198.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5744.2	28.4
10°-20°	8699.6	43.1
20°-30°	3671.3	18.2
30°-40°	957.5	4.7
40°-50°	484.3	2.4
50°-60°	316.6	1.6
60°-70°	189.7	0.9
70°-80°	99.8	0.5
80°-90°	36.0	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°	20198.9	100.0
0°-180°	20198.9	100.0

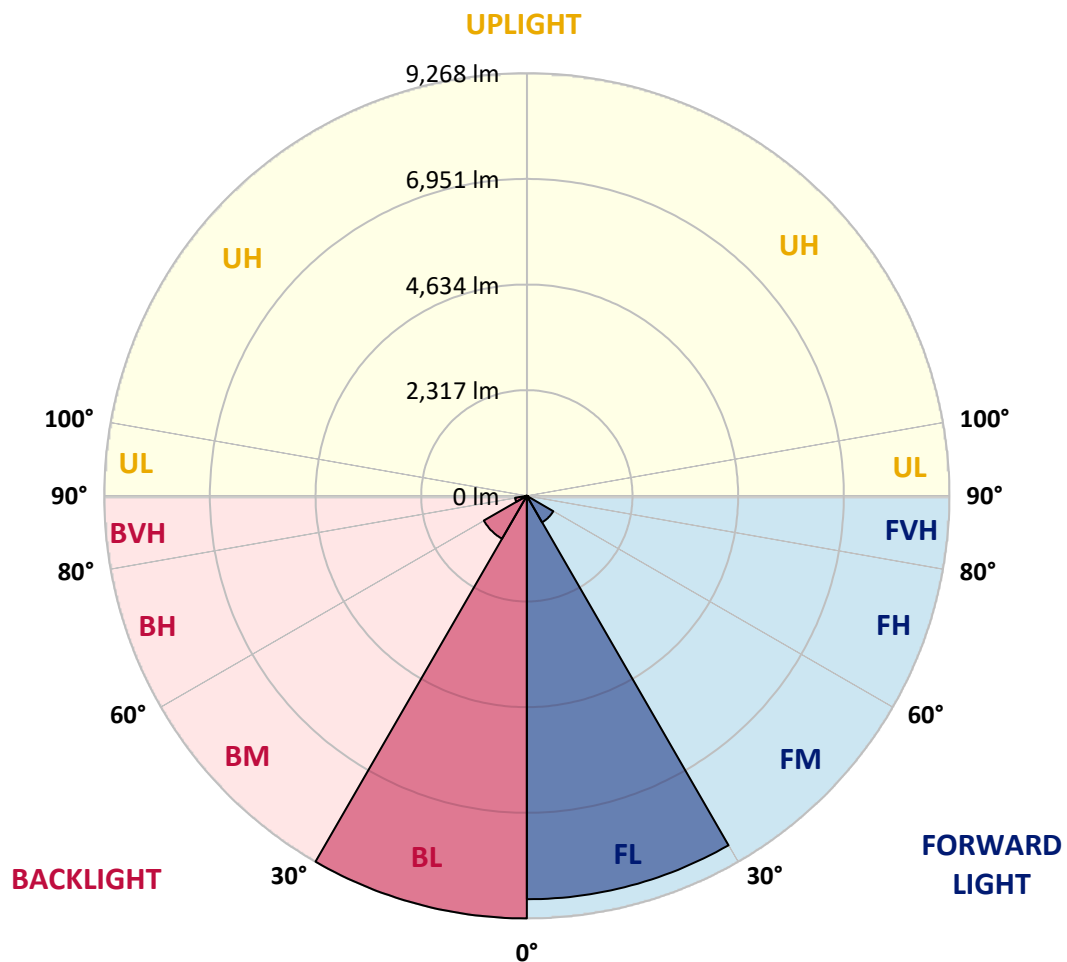


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8847.0	43.8			
FM (30°-60°)	670.0	3.3			
FH (60°-80°)	27.3	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9268.1	45.9	B5		
BM (30°-60°)	1088.3	5.4	B2/2500		
BH (60°-80°)	262.1	1.3	B1/500		G0/660
BVH (80°-90°)	31.7	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°	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4
2.5°	69099.1	69137.6	68994.7	69303.2	69062.8	69707.0	69387.2	69886.2	69718.3	69997.4
5°	64380.9	64317.4	64276.5	64755.2	64616.8	65308.6	64866.3	64721.1	65170.3	65088.6
7.5°	57255.9	57423.8	57328.5	57453.3	57523.6	58313.0	58562.5	58367.4	58374.2	58487.6
10°	49951.8	49704.5	49352.9	49586.6	50081.1	50425.9	50287.5	50573.3	50509.8	50779.7
12.5°	40964.5	41159.6	40962.2	40753.5	41617.8	41522.5	41763.0	41919.5	41527.0	42400.4
15°	30856.6	30958.7	31199.2	31183.3	31847.9	31981.7	31950.0	32115.6	31809.4	31954.5
17.5°	19823.3	20168.1	20814.6	21907.9	23137.4	23280.3	23244.0	23107.9	22960.4	22797.1
20°	13315.3	13279.0	13512.7	13832.5	16377.6	17051.3	17030.9	16604.5	15987.5	15869.5
22.5°	9327.5	9395.6	9363.8	9681.4	10207.7	12065.5	11836.4	11403.1	11201.2	11069.6
25°	6135.9	6111.0	6269.8	6365.0	6816.5	7043.3	7846.3	7685.2	7374.5	7408.5
27.5°	3740.5	3772.3	3831.3	3912.9	4232.8	4160.2	4618.4	4679.6	4579.8	4473.2
30°	2295.6	2318.3	2365.9	2424.9	2536.0	2456.6	2583.7	2803.7	2767.4	2692.6
32.5°	1558.4	1560.6	1594.7	1617.3	1603.7	1528.9	1569.7	1778.4	1782.9	1776.1
35°	1120.6	1120.6	1152.3	1170.5	1131.9	1070.7	1077.5	1206.8	1263.5	1274.8
37.5°	773.5	775.8	830.2	884.7	841.6	825.7	798.5	884.7	975.4	989.0
40°	587.5	585.2	612.5	653.3	657.8	628.3	637.4	691.9	784.9	796.2
42.5°	476.4	478.6	492.2	487.7	490.0	528.5	542.1	567.1	653.3	673.7
45°	401.5	403.8	410.6	387.9	378.8	437.8	455.9	469.6	542.1	567.1
47.5°	331.2	335.7	342.5	317.6	313.0	351.6	383.4	397.0	460.5	487.7
50°	238.2	242.7	267.7	254.1	267.7	276.7	319.8	340.3	383.4	419.6
52.5°	172.4	176.9	183.7	186.0	220.0	224.6	256.3	288.1	308.5	349.3
55°	136.1	140.6	136.1	131.6	161.1	186.0	197.3	231.4	247.3	294.9
57.5°	77.1	81.7	88.5	102.1	106.6	142.9	154.2	183.7	197.3	242.7
60°	13.6	15.9	25.0	61.2	74.9	90.7	115.7	140.6	158.8	190.5
62.5°	2.3	2.3	4.5	13.6	43.1	63.5	83.9	99.8	115.7	145.2
65°	0.0	0.0	2.3	4.5	11.3	36.3	45.4	59.0	79.4	104.3
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	20.4	36.3	45.4	70.3
70°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	15.9	27.2	43.1
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	13.6	27.2
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	11.3	11.3
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.9	13.6	9.1	9.1
80°	0.0	0.0	4.5	6.8	11.3	15.9	20.4	15.9	9.1	4.5
82.5°	0.0	0.0	4.5	9.1	11.3	18.1	25.0	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	25.0	18.1	9.1	2.3
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	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°
71172.4	0°	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4	71172.4
69468.8	2.5°	69868.1	70231.0	70305.9	70206.0	70351.2	70090.4	69890.7	69373.6	69062.8
65063.7	5°	65483.3	65428.9	65807.7	65932.4	65916.6	65716.9	65437.9	65124.9	64820.9
58267.6	7.5°	58630.6	58700.9	59045.7	59265.7	59154.5	58905.0	58712.2	58476.3	58272.2
50877.3	10°	51342.3	50859.1	51287.8	51287.8	51585.0	50879.5	50945.3	50351.0	50378.2
42384.5	12.5°	42529.7	42704.3	42774.7	42976.5	42629.5	42255.2	41797.0	41706.2	41422.7
31677.8	15°	32133.7	32632.8	32204.0	32936.7	32582.9	32192.7	32122.4	31419.2	31641.5
22976.3	17.5°	22862.9	23414.1	23586.5	24006.2	23684.0	23452.7	23160.1	22946.8	22931.0
16085.0	20°	16212.0	16765.5	16892.6	17396.1	17359.8	17287.2	17040.0	16770.1	16477.4
10949.4	22.5°	11115.0	11566.4	11988.3	12666.6	12655.2	12442.0	12417.1	12036.0	12042.8
7397.2	25°	7474.3	7803.2	7903.0	8597.1	8674.2	8651.6	8522.3	8168.4	8302.2
4518.6	27.5°	4523.1	4811.2	5149.2	5394.2	5625.6	5589.3	5460.0	5262.6	5176.4
2715.2	30°	2787.8	2917.1	3041.9	3336.8	3475.1	3547.7	3486.5	3302.7	3316.4
1787.5	32.5°	1826.0	1934.9	2025.7	2211.7	2284.2	2418.1	2393.1	2354.6	2309.2
1286.2	35°	1331.5	1410.9	1472.2	1558.4	1651.4	1764.8	1782.9	1767.1	1748.9
993.5	37.5°	1016.2	1097.9	1168.2	1204.5	1277.1	1365.6	1415.5	1413.2	1399.6
809.8	40°	825.7	886.9	950.4	998.1	1048.0	1113.8	1175.0	1181.8	1181.8
680.5	42.5°	689.6	741.8	805.3	855.2	891.5	952.7	1016.2	1020.8	1016.2
576.2	45°	589.8	635.1	696.4	755.4	784.9	830.2	891.5	905.1	896.0
494.5	47.5°	512.7	553.5	605.7	669.2	700.9	741.8	798.5	814.3	812.1
426.5	50°	440.1	487.7	539.9	592.0	632.9	671.4	725.9	744.0	737.2
362.9	52.5°	387.9	431.0	476.4	533.1	580.7	614.7	657.8	689.6	680.5
306.2	55°	324.4	376.5	424.2	471.8	530.8	567.1	607.9	646.5	637.4
258.6	57.5°	281.3	324.4	378.8	421.9	480.9	524.0	564.8	605.7	603.4
211.0	60°	235.9	281.3	333.5	378.8	433.3	480.9	521.7	567.1	571.6
158.8	62.5°	186.0	240.4	285.8	338.0	392.4	444.6	480.9	526.3	533.1
120.2	65°	140.6	197.3	247.3	297.2	351.6	408.3	440.1	478.6	485.4
88.5	67.5°	104.3	152.0	211.0	256.3	313.0	367.5	397.0	428.7	440.1
54.4	70°	79.4	115.7	176.9	220.0	279.0	322.1	353.9	381.1	390.2
36.3	72.5°	49.9	90.7	142.9	188.3	240.4	279.0	301.7	317.6	331.2
20.4	75°	34.0	70.3	115.7	161.1	199.6	229.1	249.5	263.1	274.5
9.1	77.5°	20.4	54.4	95.3	133.8	158.8	181.5	201.9	211.0	217.8
6.8	80°	11.3	40.8	79.4	108.9	124.8	140.6	156.5	167.9	172.4
4.5	82.5°	6.8	31.8	63.5	83.9	90.7	106.6	122.5	129.3	129.3
2.3	85°	4.5	22.7	43.1	61.2	65.8	77.1	81.7	86.2	90.7
2.3	87.5°	4.5	13.6	27.2	34.0	36.3	40.8	43.1	47.6	52.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
71172.4
68833.7
64480.7
57580.3
50112.8
41164.1
31419.2
22509.0
16350.4
11911.2
8091.3
5101.6
3257.4
2293.3
1742.1
1392.8
1168.2
1011.7
896.0
807.5
732.7
678.2
641.9
605.7
573.9
537.6
492.2
444.6
394.7
328.9
272.2
215.5
167.9
127.0
88.5
49.9
0.0

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