

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: P637306

Luminaire Tested: **IFLD-M-SA4D-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637306  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25233.5 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

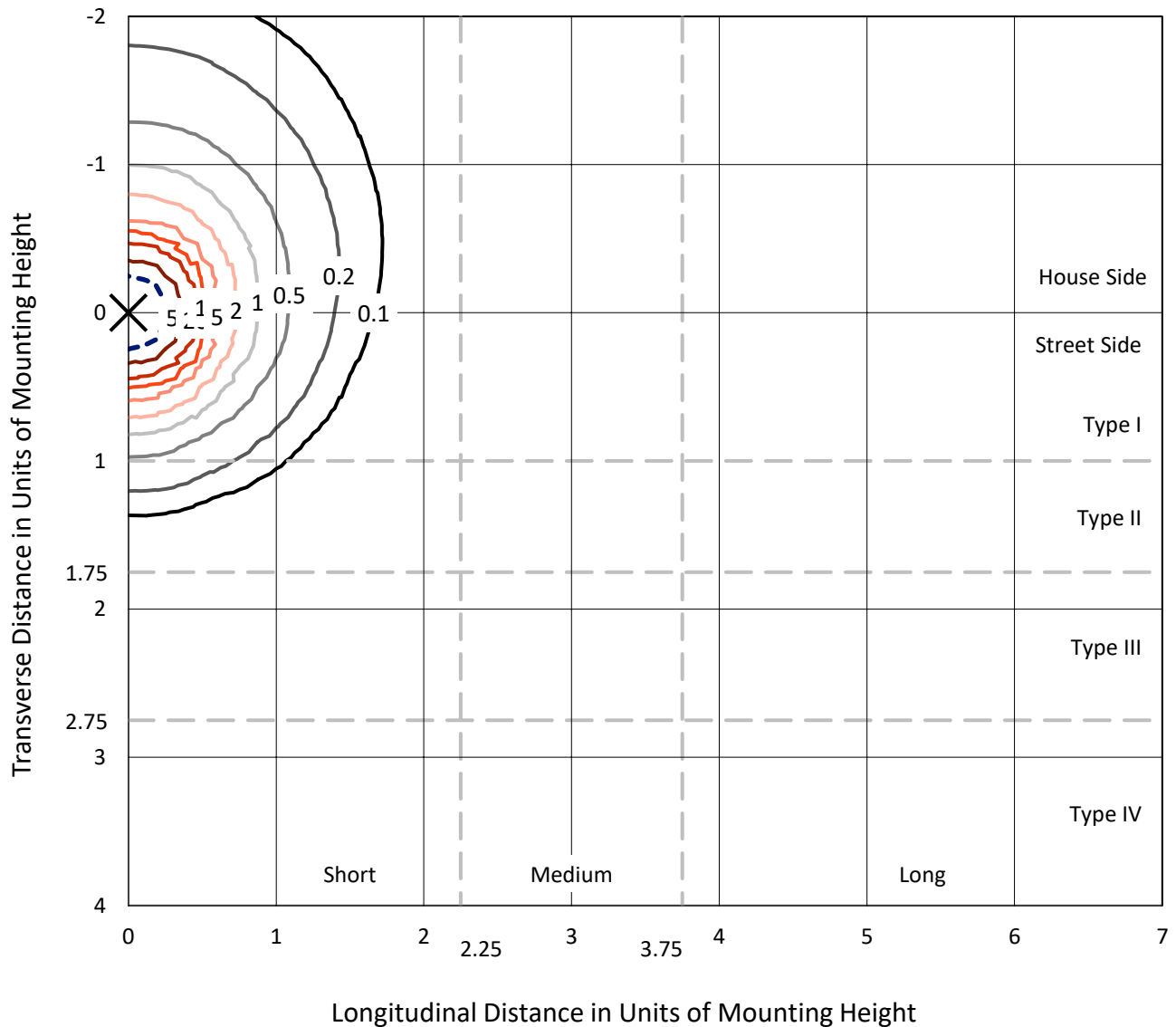
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

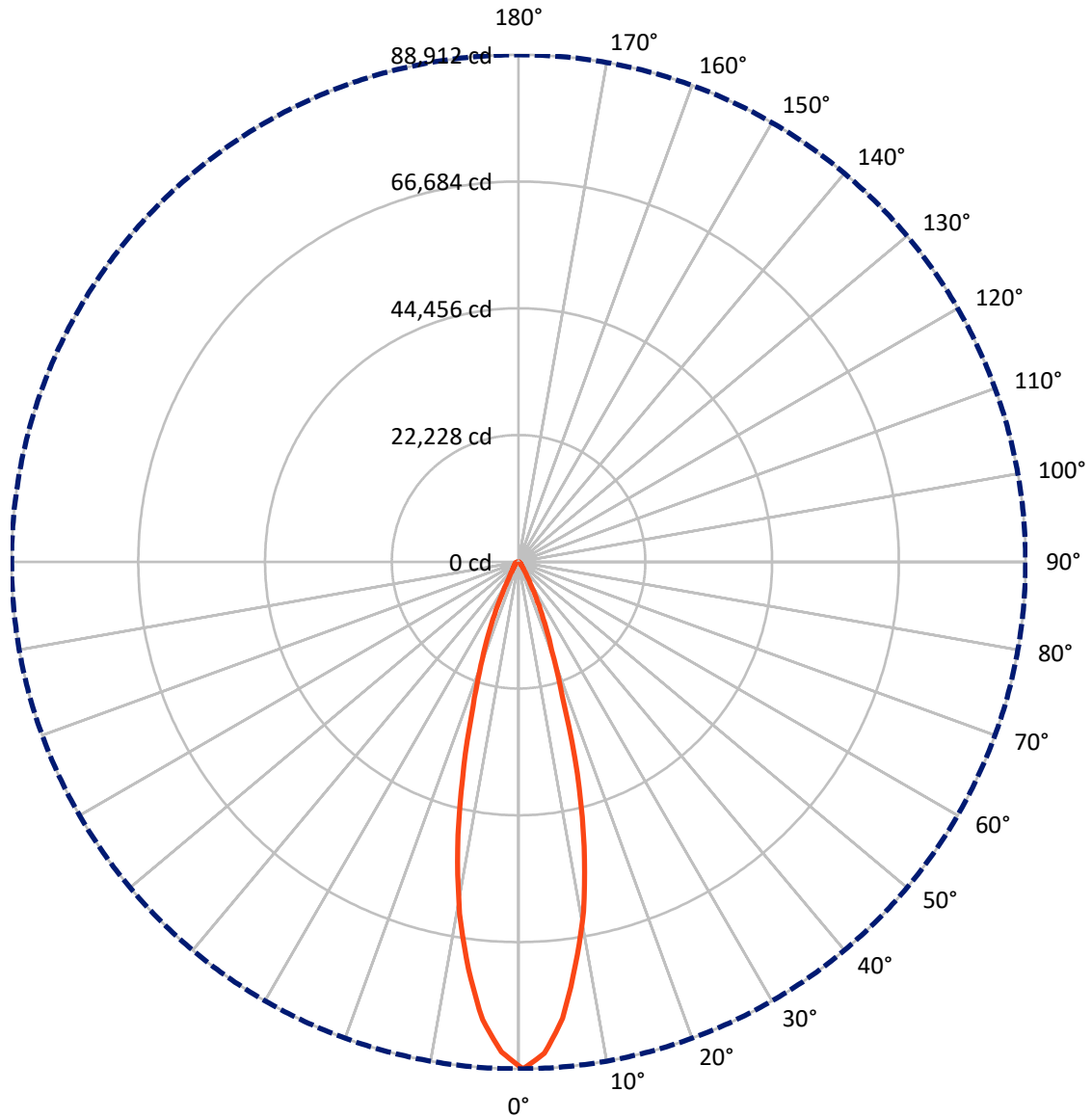
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 222.3 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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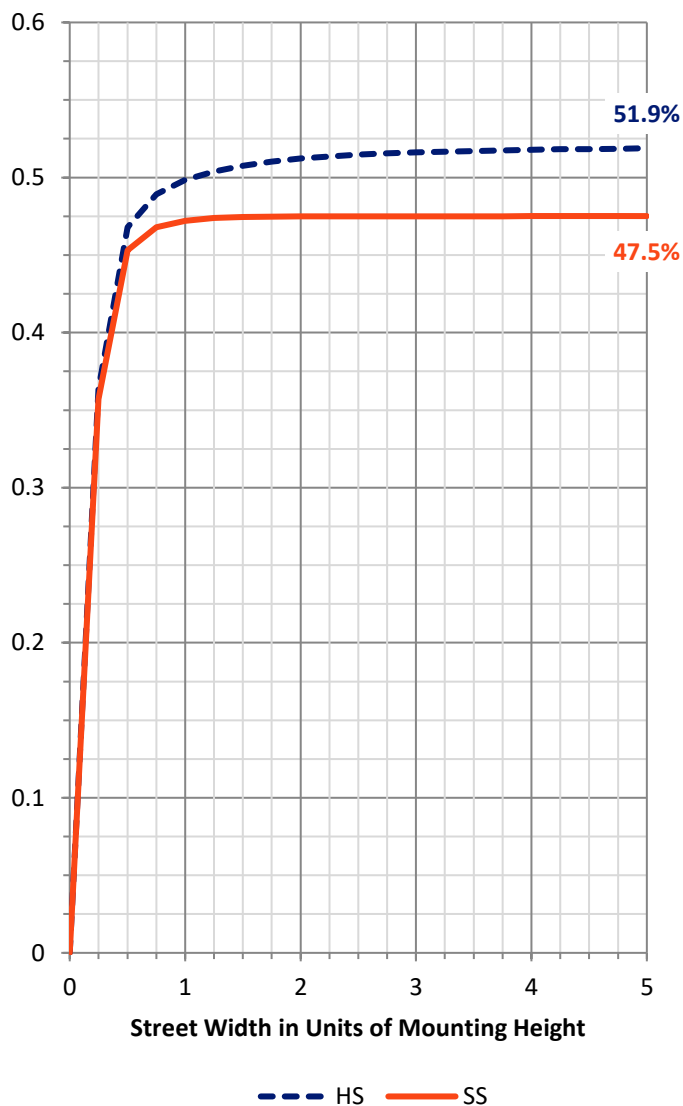
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13304.8	0.0	13304.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	11928.7	0.0	11928.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	25233.5	0.0	25233.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7176.0	28.4
10°-20°	10868.0	43.1
20°-30°	4586.3	18.2
30°-40°	1196.2	4.7
40°-50°	605.0	2.4
50°-60°	395.4	1.6
60°-70°	236.9	0.9
70°-80°	124.6	0.5
80°-90°	45.0	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°	25233.5	100.0
0°-180°	25233.5	100.0

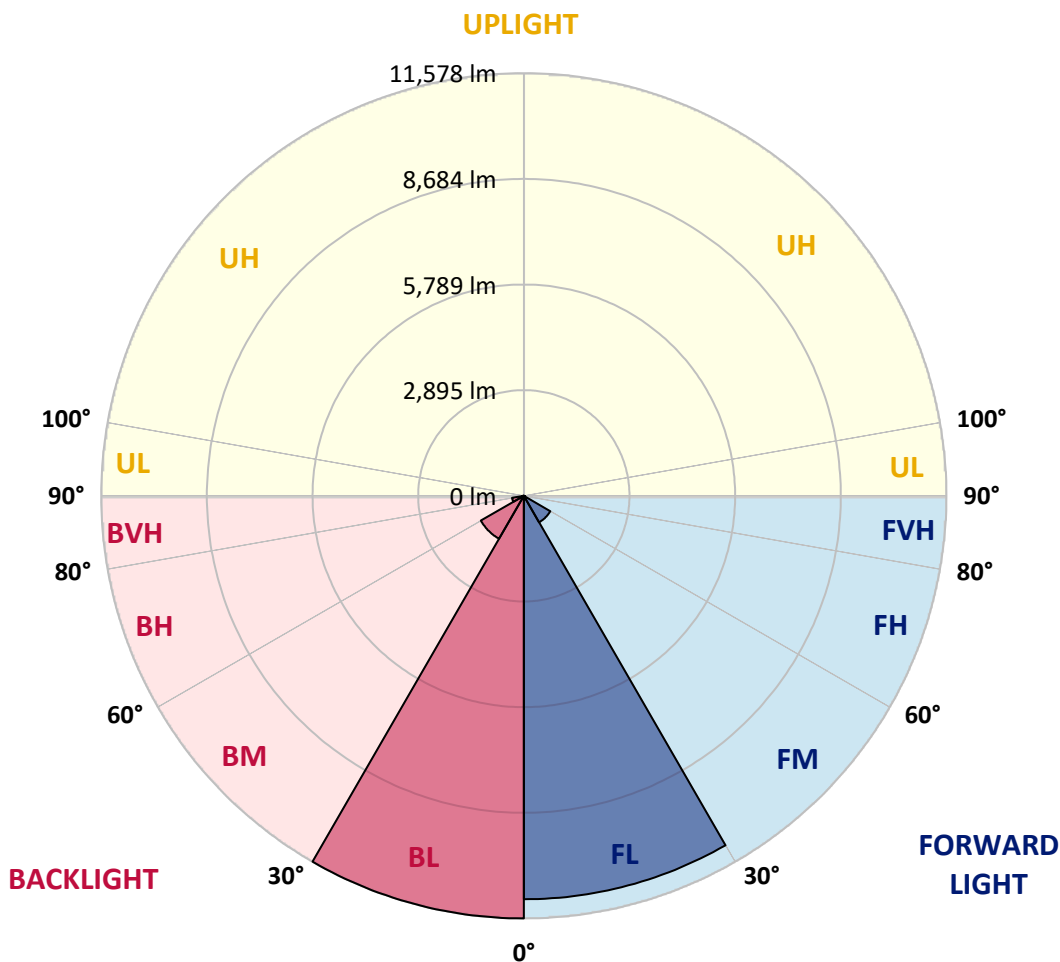


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11052.1	43.8			
FM (30°-60°)	837.0	3.3			
FH (60°-80°)	34.1	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	11578.2	45.9	B5		
BM (30°-60°)	1359.6	5.4	B2/2500		
BH (60°-80°)	327.4	1.3	B1/500		G0/660
BVH (80°-90°)	39.5	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°	88912.0	88912.0	88912.0	88912.0	88912.0	88912.0	88912.0	88912.0	88912.0	88912.0
2.5°	86322.0	86370.2	86191.6	86577.0	86276.6	87081.4	86681.9	87305.3	87095.6	87444.1
5°	80427.8	80348.4	80297.4	80895.3	80722.5	81586.8	81034.2	80852.8	81413.9	81311.9
7.5°	71526.9	71736.6	71617.6	71773.5	71861.3	72847.5	73159.2	72915.5	72924.0	73065.7
10°	62402.2	62093.3	61654.1	61946.0	62563.7	62994.5	62821.6	63178.7	63099.3	63436.5
12.5°	51174.9	51418.6	51172.0	50911.3	51991.0	51872.0	52172.3	52367.9	51877.6	52968.6
15°	38547.6	38675.1	38975.5	38955.7	39786.0	39953.2	39913.5	40120.4	39737.8	39919.2
17.5°	24764.2	25195.0	26002.6	27368.4	28904.3	29082.9	29037.5	28867.5	28683.3	28479.3
20°	16634.2	16588.8	16880.7	17280.3	20459.7	21301.4	21275.9	20743.1	19972.3	19825.0
22.5°	11652.4	11737.4	11697.8	12094.5	12751.9	15072.8	14786.6	14245.3	13993.1	13828.7
25°	7665.3	7634.1	7832.5	7951.5	8515.4	8798.8	9802.0	9600.8	9212.6	9255.1
27.5°	4672.9	4712.5	4786.2	4888.2	5287.8	5197.1	5769.5	5846.0	5721.4	5588.2
30°	2867.8	2896.1	2955.6	3029.3	3168.1	3069.0	3227.7	3502.5	3457.2	3363.7
32.5°	1946.8	1949.6	1992.1	2020.5	2003.5	1910.0	1961.0	2221.7	2227.3	2218.8
35°	1399.9	1399.9	1439.5	1462.2	1414.0	1337.5	1346.0	1507.6	1578.4	1592.6
37.5°	966.3	969.1	1037.2	1105.2	1051.3	1031.5	997.5	1105.2	1218.5	1235.5
40°	733.9	731.1	765.1	816.1	821.8	785.0	796.3	864.3	980.5	994.6
42.5°	595.1	597.9	614.9	609.3	612.1	660.3	677.3	708.4	816.1	841.6
45°	501.6	504.4	512.9	484.6	473.2	546.9	569.6	586.6	677.3	708.4
47.5°	413.7	419.4	427.9	396.7	391.1	439.2	478.9	495.9	575.3	609.3
50°	297.5	303.2	334.4	317.4	334.4	345.7	399.6	425.1	478.9	524.2
52.5°	215.4	221.0	229.5	232.4	274.9	280.5	320.2	359.9	385.4	436.4
55°	170.0	175.7	170.0	164.4	201.2	232.4	246.5	289.0	308.9	368.4
57.5°	96.3	102.0	110.5	127.5	133.2	178.5	192.7	229.5	246.5	303.2
60°	17.0	19.8	31.2	76.5	93.5	113.4	144.5	175.7	198.4	238.0
62.5°	2.8	2.8	5.7	17.0	53.8	79.3	104.8	124.7	144.5	181.4
65°	0.0	0.0	2.8	5.7	14.2	45.3	56.7	73.7	99.2	130.4
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	25.5	45.3	56.7	87.8
70°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	19.8	34.0	53.8
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	17.0	17.0	34.0
75°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	17.0	14.2	14.2
77.5°	0.0	0.0	2.8	5.7	11.3	17.0	19.8	17.0	11.3	11.3
80°	0.0	0.0	5.7	8.5	14.2	19.8	25.5	19.8	11.3	5.7
82.5°	0.0	0.0	5.7	11.3	14.2	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	31.2	22.7	11.3	2.8
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	17.0	14.2	5.7	2.8
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°
<b>88912.0</b>	0°	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>	<b>88912.0</b>
86783.9	2.5°	87282.6	87736.0	87829.5	87704.9	87886.2	87560.3	87311.0	86664.9	86276.6
81280.7	5°	81805.0	81737.0	82210.2	82366.1	82346.2	82096.8	81748.3	81357.2	80977.5
72790.8	7.5°	73244.2	73332.0	73762.8	74037.6	73898.8	73587.1	73346.2	73051.5	72796.4
63558.4	10°	64139.3	63535.7	64071.3	64071.3	64442.5	63561.2	63643.4	62901.0	62935.0
52948.8	12.5°	53130.2	53348.4	53436.2	53688.4	53254.8	52787.3	52214.9	52101.5	51747.3
39573.5	15°	40143.0	40766.5	40230.9	41146.2	40704.1	40216.7	40128.9	39250.4	39528.1
28703.1	17.5°	28561.5	29250.1	29465.4	29989.7	29587.3	29298.2	28932.7	28666.3	28646.5
20094.2	20°	20252.9	20944.3	21103.0	21732.1	21686.8	21596.1	21287.2	20950.0	20584.4
13678.6	22.5°	13885.4	14449.3	14976.4	15823.7	15809.5	15543.2	15512.0	15035.9	15044.4
9240.9	25°	9337.2	9748.1	9872.8	10739.9	10836.3	10808.0	10646.4	10204.4	10371.6
5644.8	27.5°	5650.5	6010.4	6432.6	6738.7	7027.7	6982.4	6820.9	6574.3	6466.6
3392.0	30°	3482.7	3644.2	3800.1	4168.5	4341.3	4432.0	4355.5	4126.0	4143.0
2233.0	32.5°	2281.2	2417.2	2530.5	2762.9	2853.6	3020.8	2989.6	2941.4	2884.8
1606.7	35°	1663.4	1762.6	1839.1	1946.8	2063.0	2204.7	2227.3	2207.5	2184.8
1241.2	37.5°	1269.5	1371.5	1459.4	1504.7	1595.4	1705.9	1768.3	1765.4	1748.4
1011.7	40°	1031.5	1108.0	1187.3	1246.9	1309.2	1391.4	1467.9	1476.4	1476.4
850.1	42.5°	861.5	926.6	1006.0	1068.3	1113.7	1190.2	1269.5	1275.2	1269.5
719.8	45°	736.8	793.5	870.0	943.6	980.5	1037.2	1113.7	1130.7	1119.3
617.8	47.5°	640.4	691.4	756.6	836.0	875.6	926.6	997.5	1017.3	1014.5
532.7	50°	549.7	609.3	674.4	739.6	790.6	838.8	906.8	929.5	921.0
453.4	52.5°	484.6	538.4	595.1	665.9	725.4	767.9	821.8	861.5	850.1
382.6	55°	405.2	470.4	529.9	589.4	663.1	708.4	759.4	807.6	796.3
323.0	57.5°	351.4	405.2	473.2	527.1	600.8	654.6	705.6	756.6	753.8
263.5	60°	294.7	351.4	416.6	473.2	541.2	600.8	651.8	708.4	714.1
198.4	62.5°	232.4	300.4	357.1	422.2	490.2	555.4	600.8	657.4	665.9
150.2	65°	175.7	246.5	308.9	371.2	439.2	510.1	549.7	597.9	606.4
110.5	67.5°	130.4	189.9	263.5	320.2	391.1	459.1	495.9	535.6	549.7
68.0	70°	99.2	144.5	221.0	274.9	348.6	402.4	442.1	476.1	487.4
45.3	72.5°	62.3	113.4	178.5	235.2	300.4	348.6	376.9	396.7	413.7
25.5	75°	42.5	87.8	144.5	201.2	249.4	286.2	311.7	328.7	342.9
11.3	77.5°	25.5	68.0	119.0	167.2	198.4	226.7	252.2	263.5	272.0
8.5	80°	14.2	51.0	99.2	136.0	155.9	175.7	195.5	209.7	215.4
5.7	82.5°	8.5	39.7	79.3	104.8	113.4	133.2	153.0	161.5	161.5
2.8	85°	5.7	28.3	53.8	76.5	82.2	96.3	102.0	107.7	113.4
2.8	87.5°	5.7	17.0	34.0	42.5	45.3	51.0	53.8	59.5	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
88912.0  
85990.4  
80552.4  
71932.1  
62603.4  
51424.2  
39250.4  
28119.4  
20425.7  
14880.1  
10108.0  
6373.1  
4069.3  
2864.9  
2176.3  
1739.9  
1459.4  
1263.9  
1119.3  
1008.8  
915.3  
847.3  
802.0  
756.6  
716.9  
671.6  
614.9  
555.4  
493.1  
410.9  
340.1  
269.2  
209.7  
158.7  
110.5  
62.3  
0.0

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