

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: P637503

Luminaire Tested: **IFLD-S-SA6C-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637503  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31844.4 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

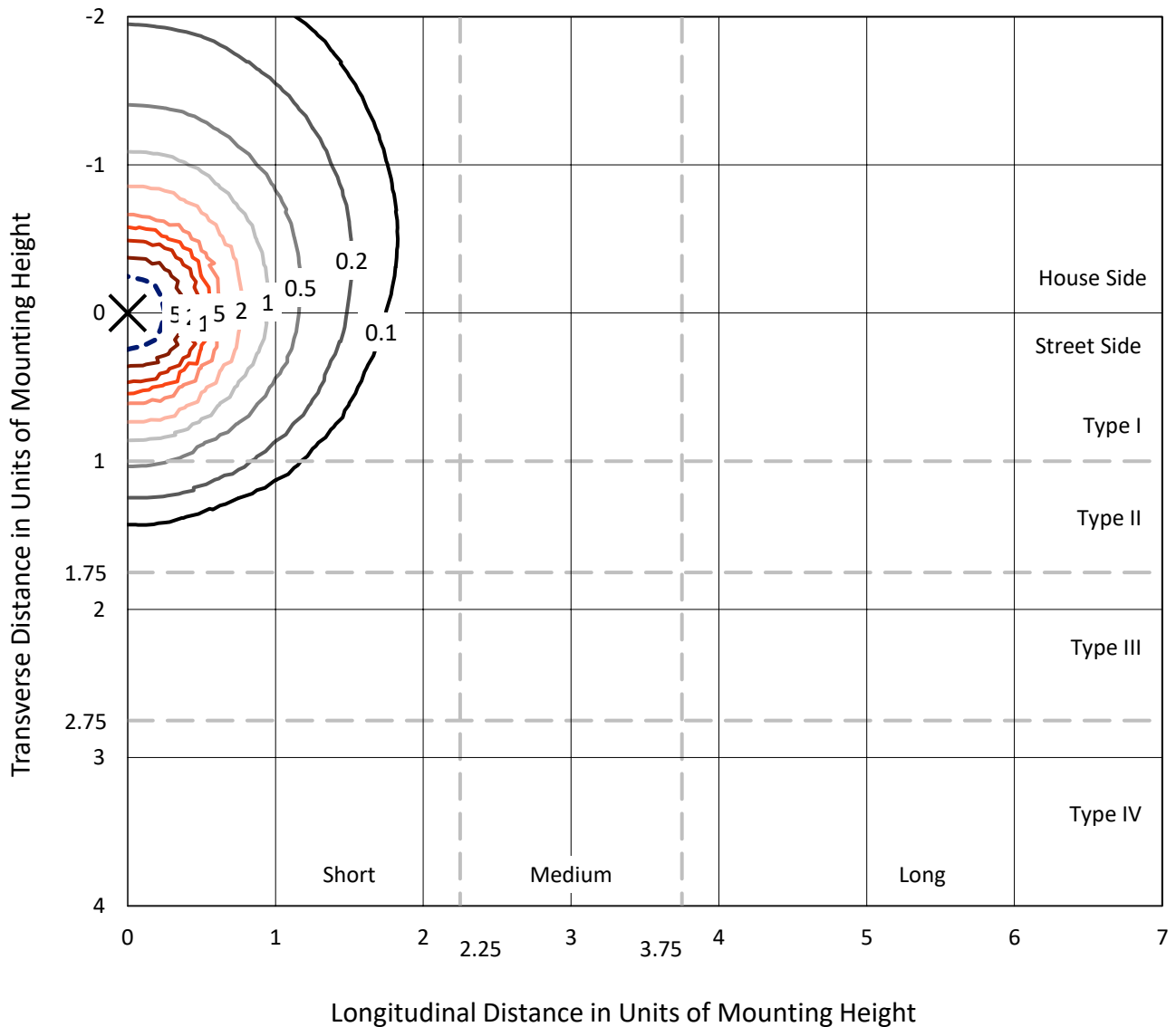
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

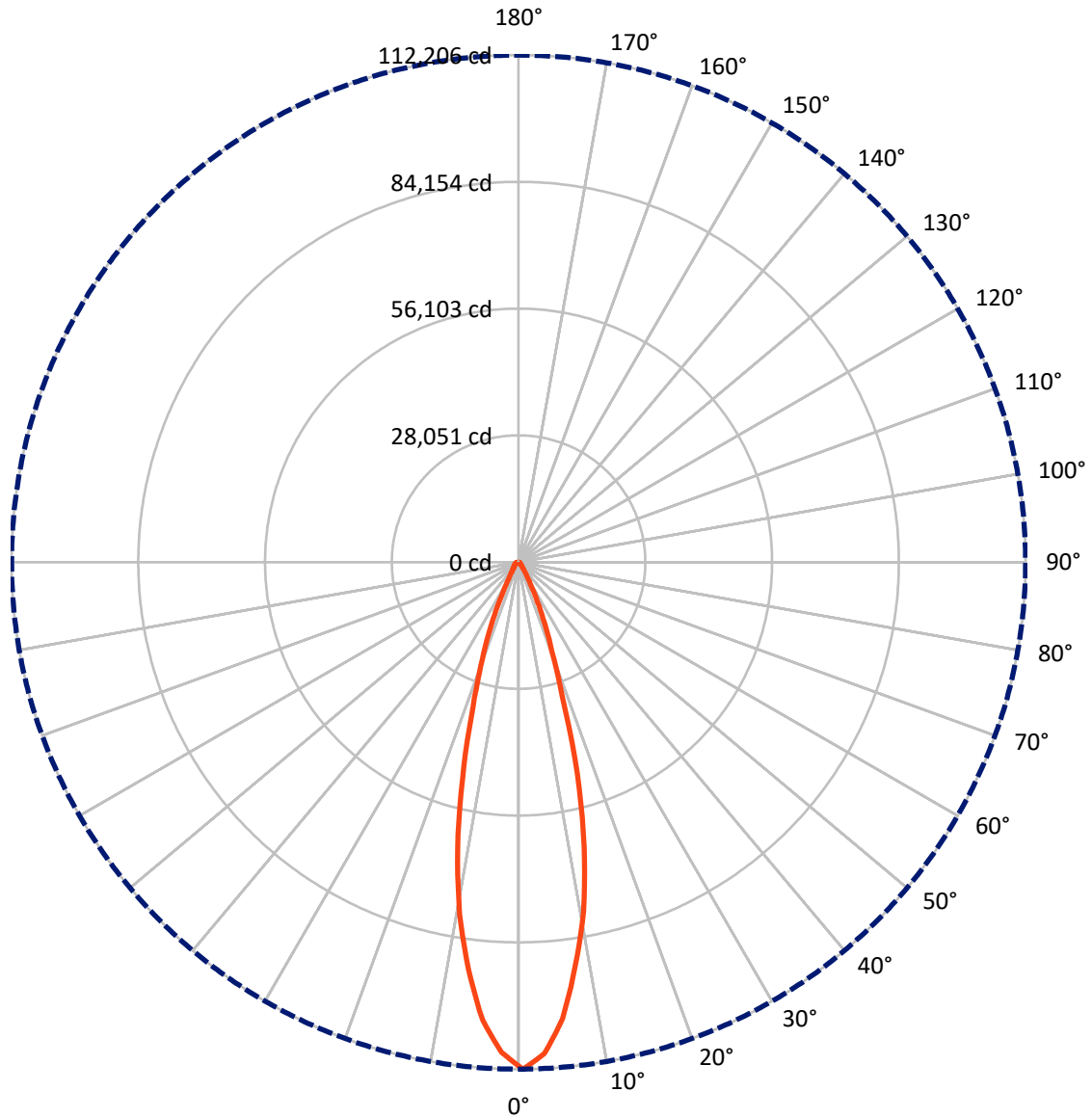
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 280.5 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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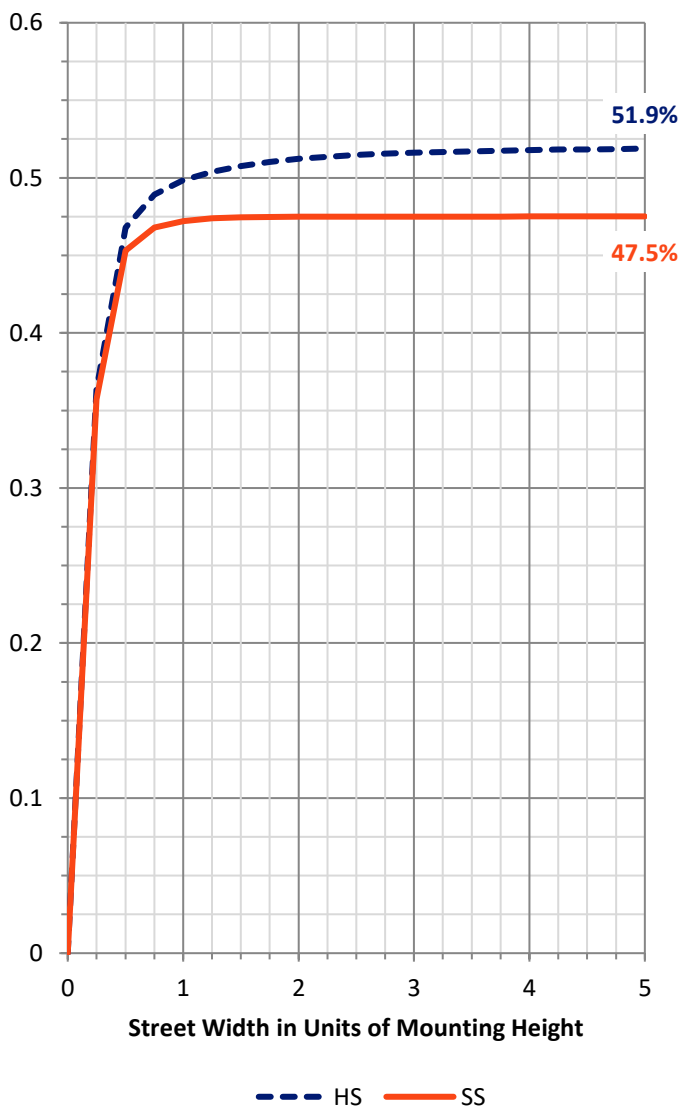
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16790.5	0.0	16790.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	15053.9	0.0	15053.9
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	31844.4	0.0	31844.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9056.0	28.4
10°-20°	13715.3	43.1
20°-30°	5787.9	18.2
30°-40°	1509.5	4.7
40°-50°	763.5	2.4
50°-60°	499.1	1.6
60°-70°	299.0	0.9
70°-80°	157.3	0.5
80°-90°	56.8	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°	31844.4	100.0
0°-180°	31844.4	100.0



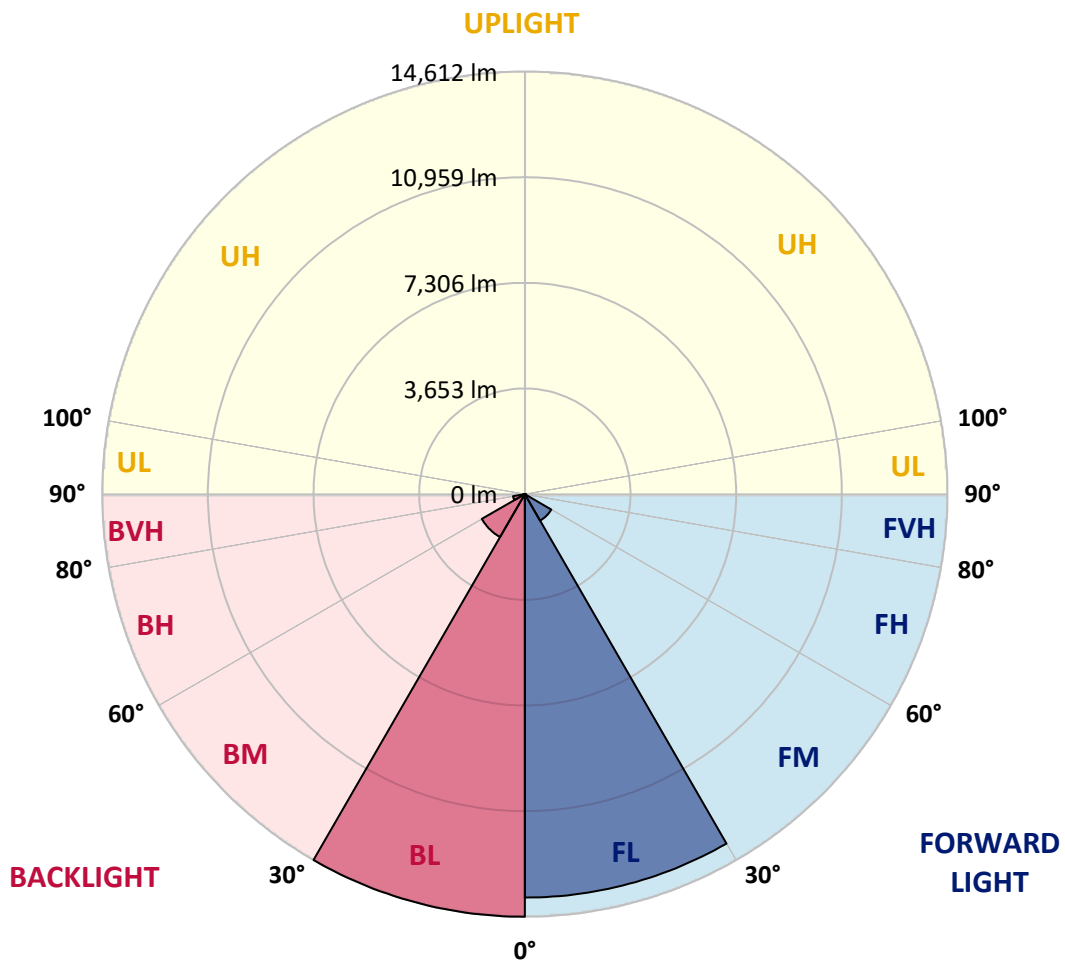
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13947.6	43.8			
FM (30°-60°)	1056.3	3.3			
FH (60°-80°)	43.1	0.1			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	14611.6	45.9	B5		
BM (30°-60°)	1715.8	5.4	B2/2500		
BH (60°-80°)	413.2	1.3	B1/500		G0/660
BVH (80°-90°)	49.9	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°	112205.9	112205.9	112205.9	112205.9	112205.9	112205.9	112205.9	112205.9	112205.9	112205.9
2.5°	108937.3	108998.1	108772.8	109259.2	108880.1	109895.7	109391.5	110178.2	109913.6	110353.5
5°	101498.9	101398.7	101334.4	102088.9	101870.8	102961.5	102264.2	102035.3	102743.4	102614.6
7.5°	90266.1	90530.8	90380.6	90577.2	90688.1	91932.6	92326.0	92018.4	92029.2	92208.0
10°	78750.8	78361.0	77806.7	78175.1	78954.7	79498.3	79280.1	79730.7	79630.6	80056.2
12.5°	64582.1	64889.6	64578.5	64249.5	65612.0	65461.8	65840.9	66087.6	65469.0	66845.8
15°	48646.6	48807.6	49186.6	49161.6	50209.4	50420.4	50370.4	50631.4	50148.6	50377.5
17.5°	31252.2	31795.7	32814.9	34538.7	36476.9	36702.2	36645.0	36430.4	36198.0	35940.5
20°	20992.1	20934.9	21303.2	21807.5	25820.0	26882.1	26849.9	26177.6	25204.8	25018.9
22.5°	14705.2	14812.5	14762.4	15263.1	16092.8	19021.7	18660.5	17977.4	17659.1	17451.7
25°	9673.5	9634.2	9884.5	10034.7	10746.4	11104.0	12370.0	12116.1	11626.1	11679.8
27.5°	5897.1	5947.2	6040.2	6168.9	6673.1	6558.7	7281.1	7377.6	7220.3	7052.2
30°	3619.1	3654.8	3729.9	3822.9	3998.2	3873.0	4073.3	4420.1	4362.9	4244.9
32.5°	2456.8	2460.4	2514.0	2549.8	2528.4	2410.3	2474.7	2803.7	2810.9	2800.1
35°	1766.6	1766.6	1816.7	1845.3	1784.5	1688.0	1698.7	1902.5	1991.9	2009.8
37.5°	1219.5	1223.1	1308.9	1394.7	1326.8	1301.7	1258.8	1394.7	1537.8	1559.2
40°	926.2	922.7	965.6	1029.9	1037.1	990.6	1004.9	1090.7	1237.4	1255.2
42.5°	751.0	754.6	776.0	768.9	772.5	833.2	854.7	894.0	1029.9	1062.1
45°	633.0	636.6	647.3	611.5	597.2	690.2	718.8	740.3	854.7	894.0
47.5°	522.1	529.3	540.0	500.7	493.5	554.3	604.4	625.8	726.0	768.9
50°	375.5	382.7	422.0	400.5	422.0	436.3	504.2	536.4	604.4	661.6
52.5°	271.8	278.9	289.7	293.2	346.9	354.0	404.1	454.2	486.4	550.7
55°	214.6	221.7	214.6	207.4	253.9	293.2	311.1	364.8	389.8	464.9
57.5°	121.6	128.7	139.5	160.9	168.1	225.3	243.2	289.7	311.1	382.7
60°	21.5	25.0	39.3	96.6	118.0	143.0	182.4	221.7	250.3	300.4
62.5°	3.6	3.6	7.2	21.5	67.9	100.1	132.3	157.4	182.4	228.9
65°	0.0	0.0	3.6	7.2	17.9	57.2	71.5	93.0	125.2	164.5
67.5°	0.0	0.0	3.6	7.2	10.7	21.5	32.2	57.2	71.5	110.9
70°	0.0	0.0	3.6	7.2	10.7	14.3	17.9	25.0	42.9	67.9
72.5°	0.0	0.0	3.6	7.2	10.7	14.3	17.9	21.5	21.5	42.9
75°	0.0	0.0	3.6	7.2	10.7	17.9	21.5	21.5	17.9	17.9
77.5°	0.0	0.0	3.6	7.2	14.3	21.5	25.0	21.5	14.3	14.3
80°	0.0	0.0	7.2	10.7	17.9	25.0	32.2	25.0	14.3	7.2
82.5°	0.0	0.0	7.2	14.3	17.9	28.6	39.3	32.2	14.3	7.2
85°	0.0	0.0	3.6	10.7	21.5	28.6	39.3	28.6	14.3	3.6
87.5°	0.0	0.0	3.6	3.6	7.2	10.7	21.5	17.9	7.2	3.6
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>112205.9</b>	0°	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>	<b>112205.9</b>
109520.2	2.5°	110149.6	110721.8	110839.8	110682.5	110911.3	110500.1	110185.4	109370.0	108880.1
102575.3	5°	103236.9	103151.1	103748.3	103945.0	103919.9	103605.2	103165.4	102671.9	102192.6
91861.1	7.5°	92433.3	92544.1	93087.7	93434.6	93259.4	92866.0	92562.0	92190.1	91868.2
80209.9	10°	80943.0	80181.3	80857.2	80857.2	81325.7	80213.5	80317.2	79380.3	79423.2
66820.7	12.5°	67049.6	67325.0	67435.8	67754.1	67207.0	66616.9	65894.5	65751.5	65304.4
49941.2	15°	50660.0	51446.8	50770.9	51926.0	51368.1	50753.0	50642.1	49533.5	49884.0
36223.0	17.5°	36044.2	36913.2	37185.0	37846.6	37338.8	36974.0	36512.7	36176.5	36151.5
25358.6	20°	25558.9	26431.5	26631.7	27425.7	27368.4	27254.0	26864.2	26438.6	25977.3
17262.2	22.5°	17523.2	18234.9	18900.1	19969.3	19951.5	19615.3	19576.0	18975.2	18985.9
11661.9	25°	11783.5	12302.0	12459.4	13553.7	13675.3	13639.5	13435.7	12877.8	13088.8
7123.7	27.5°	7130.9	7585.1	8117.9	8504.1	8868.9	8811.7	8607.8	8296.7	8160.8
4280.7	30°	4395.1	4599.0	4795.6	5260.5	5478.7	5593.1	5496.6	5206.9	5228.4
2818.0	32.5°	2878.8	3050.5	3193.5	3486.8	3601.2	3812.2	3772.9	3712.1	3640.5
2027.7	35°	2099.2	2224.4	2320.9	2456.8	2603.5	2782.3	2810.9	2785.8	2757.2
1566.4	37.5°	1602.1	1730.9	1841.7	1898.9	2013.4	2152.9	2231.5	2228.0	2206.5
1276.7	40°	1301.7	1398.3	1498.4	1573.5	1652.2	1755.9	1852.5	1863.2	1863.2
1072.9	42.5°	1087.2	1169.4	1269.5	1348.2	1405.4	1502.0	1602.1	1609.3	1602.1
908.3	45°	929.8	1001.3	1097.9	1190.9	1237.4	1308.9	1405.4	1426.9	1412.6
779.6	47.5°	808.2	872.6	954.8	1055.0	1105.0	1169.4	1258.8	1283.8	1280.3
672.3	50°	693.8	768.9	851.1	933.4	997.8	1058.5	1144.4	1173.0	1162.3
572.2	52.5°	611.5	679.5	751.0	840.4	915.5	969.1	1037.1	1087.2	1072.9
482.8	55°	511.4	593.6	668.7	743.8	836.8	894.0	958.4	1019.2	1004.9
407.7	57.5°	443.4	511.4	597.2	665.2	758.1	826.1	890.5	954.8	951.3
332.6	60°	371.9	443.4	525.7	597.2	683.0	758.1	822.5	894.0	901.2
250.3	62.5°	293.2	379.1	450.6	532.8	618.7	700.9	758.1	829.7	840.4
189.5	65°	221.7	311.1	389.8	468.5	554.3	643.7	693.8	754.6	765.3
139.5	67.5°	164.5	239.6	332.6	404.1	493.5	579.3	625.8	675.9	693.8
85.8	70°	125.2	182.4	278.9	346.9	439.9	507.8	557.9	600.8	615.1
57.2	72.5°	78.7	143.0	225.3	296.8	379.1	439.9	475.6	500.7	522.1
32.2	75°	53.6	110.9	182.4	253.9	314.7	361.2	393.4	414.8	432.7
14.3	77.5°	32.2	85.8	150.2	211.0	250.3	286.1	318.3	332.6	343.3
10.7	80°	17.9	64.4	125.2	171.7	196.7	221.7	246.8	264.6	271.8
7.2	82.5°	10.7	50.1	100.1	132.3	143.0	168.1	193.1	203.8	203.8
3.6	85°	7.2	35.8	67.9	96.6	103.7	121.6	128.7	135.9	143.0
3.6	87.5°	7.2	21.5	42.9	53.6	57.2	64.4	67.9	75.1	82.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
112205.9  
108518.9  
101656.2  
90777.5  
79004.8  
64896.8  
49533.5  
35486.3  
25777.0  
18778.5  
12756.2  
8042.8  
5135.4  
3615.5  
2746.5  
2195.8  
1841.7  
1595.0  
1412.6  
1273.1  
1155.1  
1069.3  
1012.1  
954.8  
904.8  
847.6  
776.0  
700.9  
622.3  
518.5  
429.1  
339.7  
264.6  
200.3  
139.5  
78.7  
0.0

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