

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: P637484

Luminaire Tested: **IFLD-L-SA7C-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637484  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31430.2 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

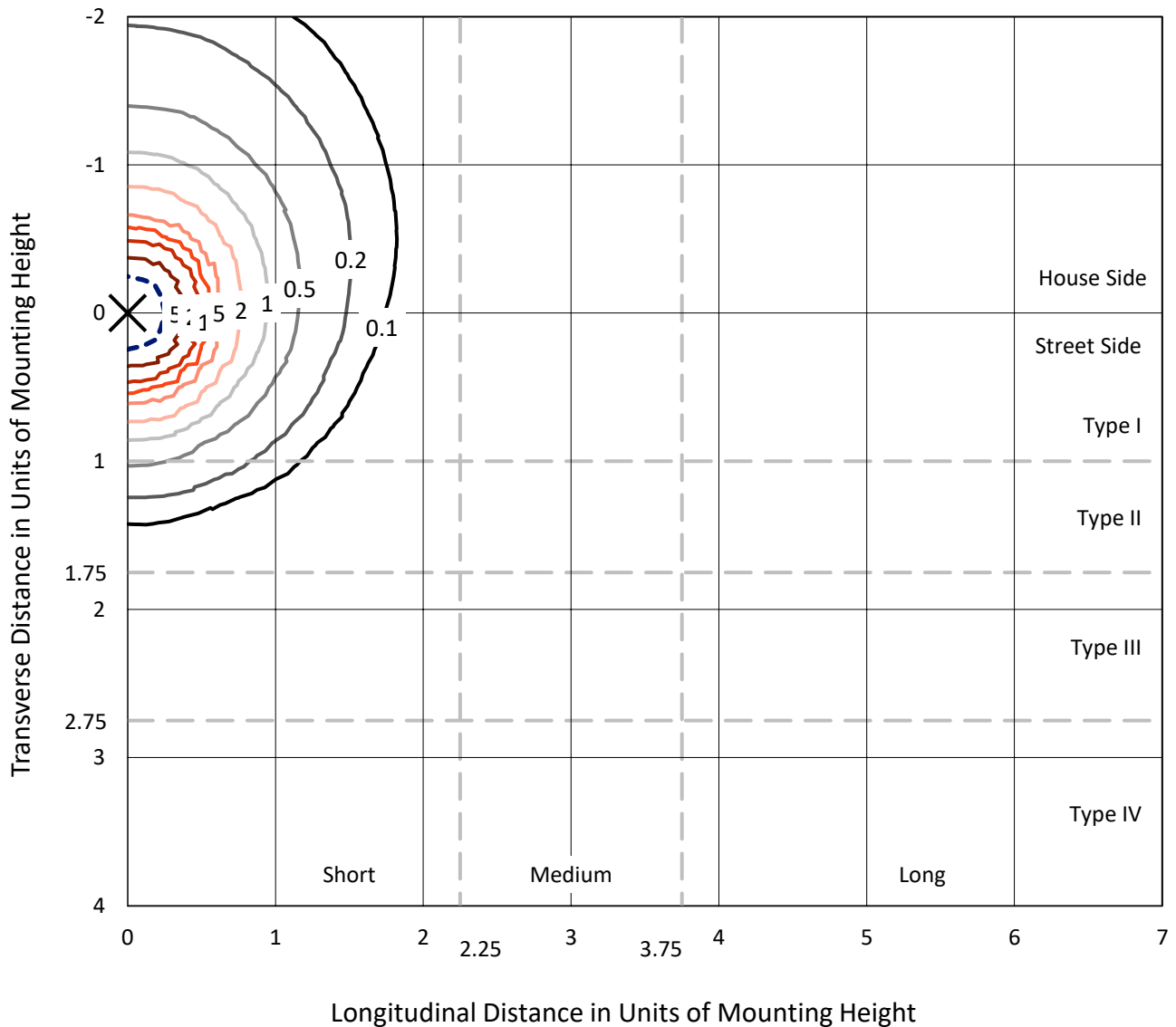
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

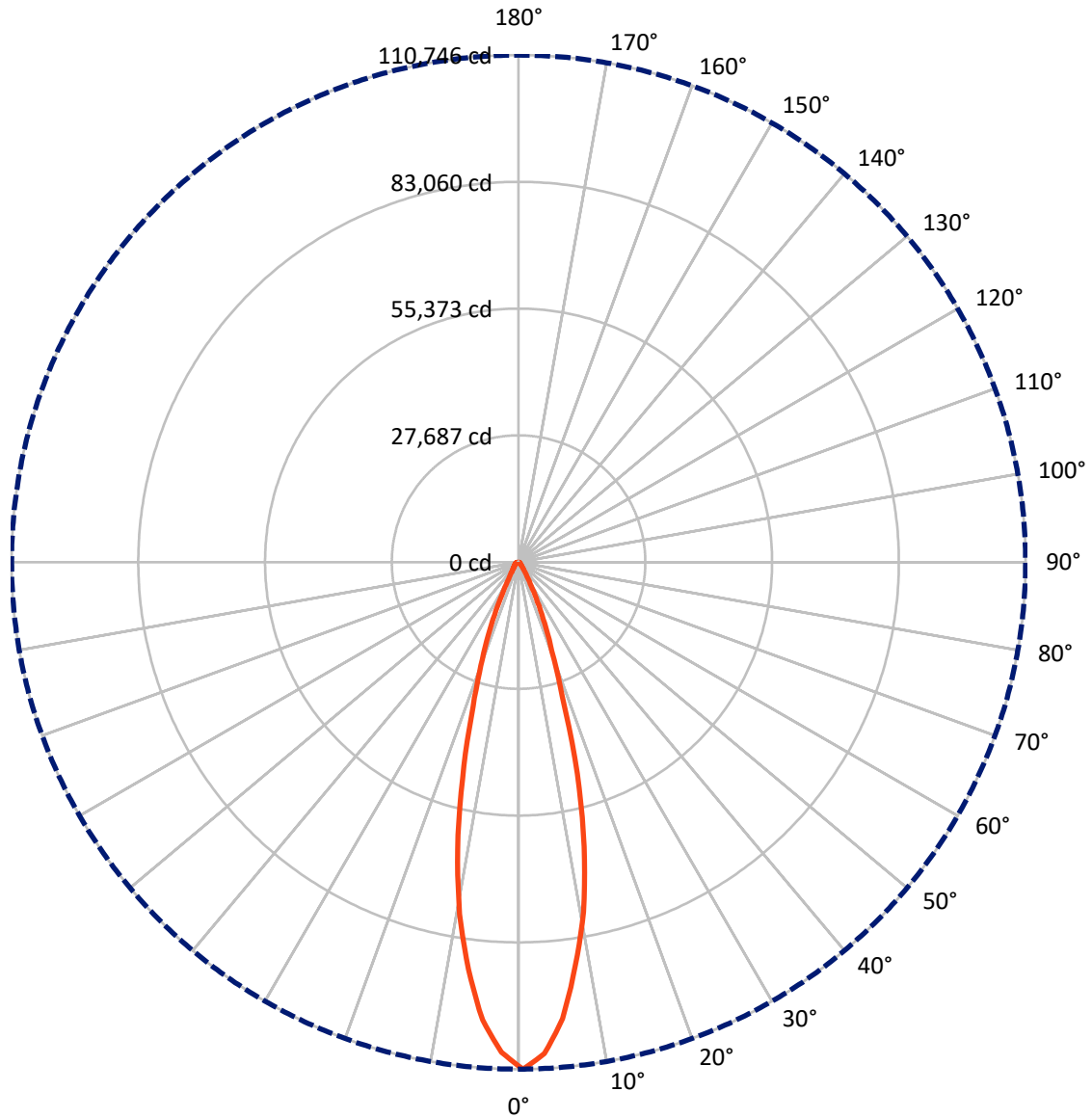
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 276.9 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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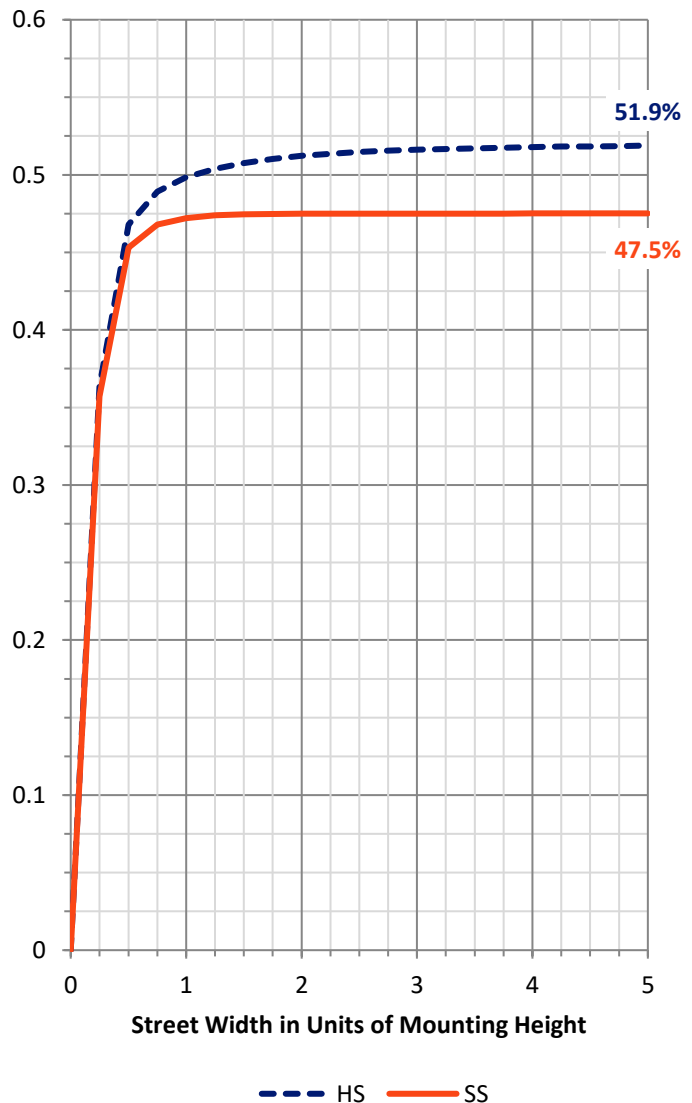
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16572.1	0.0	16572.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14858.1	0.0	14858.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	31430.2	0.0	31430.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8938.2	28.4
10°-20°	13536.9	43.1
20°-30°	5712.6	18.2
30°-40°	1489.9	4.7
40°-50°	753.6	2.4
50°-60°	492.6	1.6
60°-70°	295.1	0.9
70°-80°	155.2	0.5
80°-90°	56.1	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°	31430.2	100.0
0°-180°	31430.2	100.0



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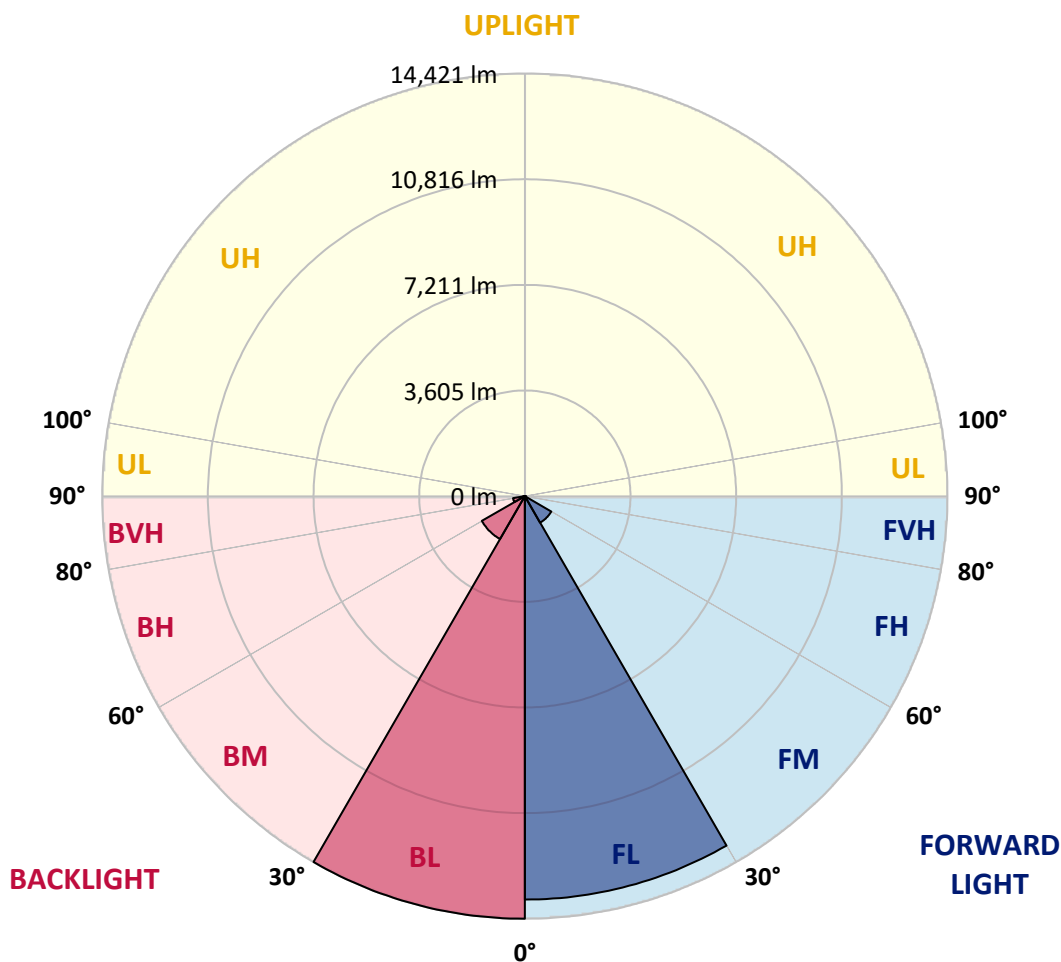
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13766.2	43.8			
FM (30°-60°)	1042.6	3.3			
FH (60°-80°)	42.5	0.1			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	14421.5	45.9	B5		
BM (30°-60°)	1693.5	5.4	B2/2500		
BH (60°-80°)	407.9	1.3	B1/500		G0/660
BVH (80°-90°)	49.3	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°	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4
2.5°	107520.3	107580.3	107358.0	107838.0	107463.8	108466.3	107968.6	108745.1	108483.9	108918.1
5°	100178.6	100079.8	100016.3	100761.0	100545.7	101622.3	100934.0	100708.1	101407.0	101279.9
7.5°	89092.0	89353.2	89204.9	89399.1	89508.5	90736.8	91125.1	90821.5	90832.1	91008.6
10°	77726.5	77341.8	76794.7	77158.2	77927.7	78464.2	78248.9	78693.6	78594.8	79014.8
12.5°	63742.0	64045.6	63738.5	63413.8	64758.6	64610.3	64984.5	65228.0	64617.4	65976.3
15°	48013.9	48172.7	48546.9	48522.2	49556.3	49764.6	49715.2	49972.8	49496.3	49722.2
17.5°	30845.6	31382.2	32388.1	34089.4	36002.5	36224.8	36168.4	35956.6	35727.2	35473.0
20°	20719.1	20662.6	21026.1	21523.8	25484.1	26532.4	26500.6	25837.1	24877.0	24693.5
22.5°	14513.9	14619.8	14570.4	15064.6	15883.4	18774.2	18417.7	17743.6	17429.4	17224.7
25°	9547.7	9508.9	9756.0	9904.2	10606.6	10959.6	12209.1	11958.5	11474.9	11527.9
27.5°	5820.4	5869.8	5961.6	6088.7	6586.3	6473.4	7186.4	7281.7	7126.4	6960.5
30°	3572.0	3607.3	3681.4	3773.2	3946.2	3822.6	4020.3	4362.7	4306.2	4189.7
32.5°	2424.9	2428.4	2481.3	2516.6	2495.5	2379.0	2442.5	2767.2	2774.3	2763.7
35°	1743.6	1743.6	1793.1	1821.3	1761.3	1666.0	1676.6	1877.8	1966.0	1983.7
37.5°	1203.6	1207.1	1291.9	1376.6	1309.5	1284.8	1242.4	1376.6	1517.8	1538.9
40°	914.2	910.7	953.0	1016.5	1023.6	977.7	991.8	1076.5	1221.3	1238.9
42.5°	741.2	744.8	765.9	758.9	762.4	822.4	843.6	882.4	1016.5	1048.3
45°	624.7	628.3	638.9	603.6	589.5	681.2	709.5	730.6	843.6	882.4
47.5°	515.3	522.4	533.0	494.2	487.1	547.1	596.5	617.7	716.5	758.9
50°	370.6	377.7	416.5	395.3	416.5	430.6	497.7	529.4	596.5	653.0
52.5°	268.3	275.3	285.9	289.4	342.4	349.4	398.9	448.3	480.0	543.6
55°	211.8	218.8	211.8	204.7	250.6	289.4	307.1	360.0	384.7	458.9
57.5°	120.0	127.1	137.7	158.8	165.9	222.4	240.0	285.9	307.1	377.7
60°	21.2	24.7	38.8	95.3	116.5	141.2	180.0	218.8	247.1	296.5
62.5°	3.5	3.5	7.1	21.2	67.1	98.8	130.6	155.3	180.0	225.9
65°	0.0	0.0	3.5	7.1	17.6	56.5	70.6	91.8	123.5	162.4
67.5°	0.0	0.0	3.5	7.1	10.6	21.2	31.8	56.5	70.6	109.4
70°	0.0	0.0	3.5	7.1	10.6	14.1	17.6	24.7	42.4	67.1
72.5°	0.0	0.0	3.5	7.1	10.6	14.1	17.6	21.2	21.2	42.4
75°	0.0	0.0	3.5	7.1	10.6	17.6	21.2	21.2	17.6	17.6
77.5°	0.0	0.0	3.5	7.1	14.1	21.2	24.7	21.2	14.1	14.1
80°	0.0	0.0	7.1	10.6	17.6	24.7	31.8	24.7	14.1	7.1
82.5°	0.0	0.0	7.1	14.1	17.6	28.2	38.8	31.8	14.1	7.1
85°	0.0	0.0	3.5	10.6	21.2	28.2	38.8	28.2	14.1	3.5
87.5°	0.0	0.0	3.5	3.5	7.1	10.6	21.2	17.6	7.1	3.5
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°
110746.4	0°	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4	110746.4
108095.7	2.5°	108716.9	109281.6	109398.1	109242.8	109468.7	109062.8	108752.2	107947.4	107463.8
101241.1	5°	101894.1	101809.3	102398.8	102592.9	102568.2	102257.6	101823.5	101336.4	100863.4
90666.2	7.5°	91231.0	91340.4	91876.9	92219.3	92046.3	91658.1	91358.0	90991.0	90673.3
79166.6	10°	79890.2	79138.4	79805.5	79805.5	80267.9	79170.1	79272.5	78347.7	78390.1
65951.6	12.5°	66177.5	66449.3	66558.7	66872.8	66332.8	65750.4	65037.4	64896.2	64455.0
49291.6	15°	50001.1	50777.6	50110.5	51250.6	50700.0	50092.9	49983.4	48889.2	49235.1
35751.9	17.5°	35575.4	36433.1	36701.3	37354.3	36853.1	36493.1	36037.8	35706.0	35681.3
25028.8	20°	25226.4	26087.7	26285.3	27068.9	27012.4	26899.5	26514.8	26094.7	25639.4
17037.6	22.5°	17295.3	17997.7	18654.2	19709.6	19691.9	19360.2	19321.3	18728.3	18738.9
11510.2	25°	11630.2	12142.0	12297.3	13377.4	13497.4	13462.1	13260.9	12710.3	12918.5
7031.1	27.5°	7038.1	7486.4	8012.3	8393.5	8753.5	8697.1	8495.9	8188.8	8054.7
4225.0	30°	4337.9	4539.1	4733.3	5192.1	5407.4	5520.4	5425.1	5139.2	5160.4
2781.4	32.5°	2841.4	3010.8	3152.0	3441.4	3554.4	3762.6	3723.8	3663.8	3593.2
2001.3	35°	2071.9	2195.4	2290.7	2424.9	2569.6	2746.1	2774.3	2749.6	2721.4
1546.0	37.5°	1581.3	1708.4	1817.8	1874.2	1987.2	2124.9	2202.5	2199.0	2177.8
1260.1	40°	1284.8	1380.1	1478.9	1553.0	1630.7	1733.1	1828.4	1838.9	1838.9
1058.9	42.5°	1073.0	1154.2	1253.0	1330.7	1387.2	1482.5	1581.3	1588.3	1581.3
896.5	45°	917.7	988.3	1083.6	1175.4	1221.3	1291.9	1387.2	1408.3	1394.2
769.5	47.5°	797.7	861.2	942.4	1041.2	1090.7	1154.2	1242.4	1267.1	1263.6
663.6	50°	684.8	758.9	840.1	921.2	984.8	1044.8	1129.5	1157.7	1147.1
564.7	52.5°	603.6	670.6	741.2	829.5	903.6	956.5	1023.6	1073.0	1058.9
476.5	55°	504.7	585.9	660.0	734.2	825.9	882.4	945.9	1006.0	991.8
402.4	57.5°	437.7	504.7	589.5	656.5	748.3	815.4	878.9	942.4	938.9
328.3	60°	367.1	437.7	518.9	589.5	674.2	748.3	811.8	882.4	889.5
247.1	62.5°	289.4	374.1	444.7	525.9	610.6	691.8	748.3	818.9	829.5
187.1	65°	218.8	307.1	384.7	462.4	547.1	635.3	684.8	744.8	755.3
137.7	67.5°	162.4	236.5	328.3	398.9	487.1	571.8	617.7	667.1	684.8
84.7	70°	123.5	180.0	275.3	342.4	434.1	501.2	550.6	593.0	607.1
56.5	72.5°	77.7	141.2	222.4	293.0	374.1	434.1	469.4	494.2	515.3
31.8	75°	52.9	109.4	180.0	250.6	310.6	356.5	388.3	409.4	427.1
14.1	77.5°	31.8	84.7	148.2	208.2	247.1	282.4	314.1	328.3	338.8
10.6	80°	17.6	63.5	123.5	169.4	194.1	218.8	243.5	261.2	268.3
7.1	82.5°	10.6	49.4	98.8	130.6	141.2	165.9	190.6	201.2	201.2
3.5	85°	7.1	35.3	67.1	95.3	102.4	120.0	127.1	134.1	141.2
3.5	87.5°	7.1	21.2	42.4	52.9	56.5	63.5	67.1	74.1	81.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
110746.4  
107107.4  
100333.9  
89596.7  
77977.1  
64052.6  
48889.2  
35024.8  
25441.7  
18534.2  
12590.3  
7938.2  
5068.6  
3568.5  
2710.8  
2167.2  
1817.8  
1574.2  
1394.2  
1256.6  
1140.1  
1055.4  
998.9  
942.4  
893.0  
836.5  
765.9  
691.8  
614.2  
511.8  
423.6  
335.3  
261.2  
197.7  
137.7  
77.7  
0.0

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