

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: P637519

Luminaire Tested: **IFLD-L-SA8D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42723.8 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

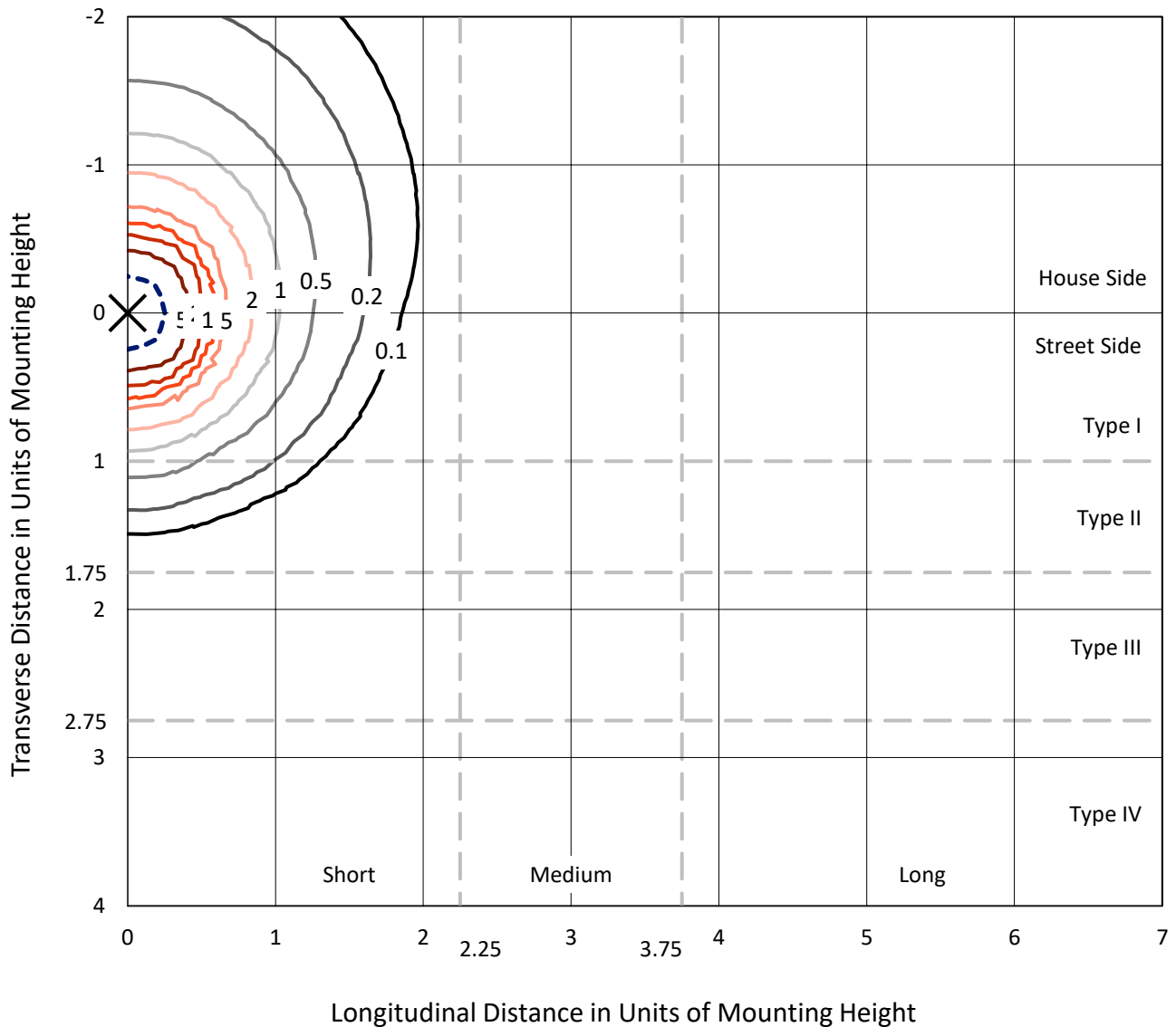
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

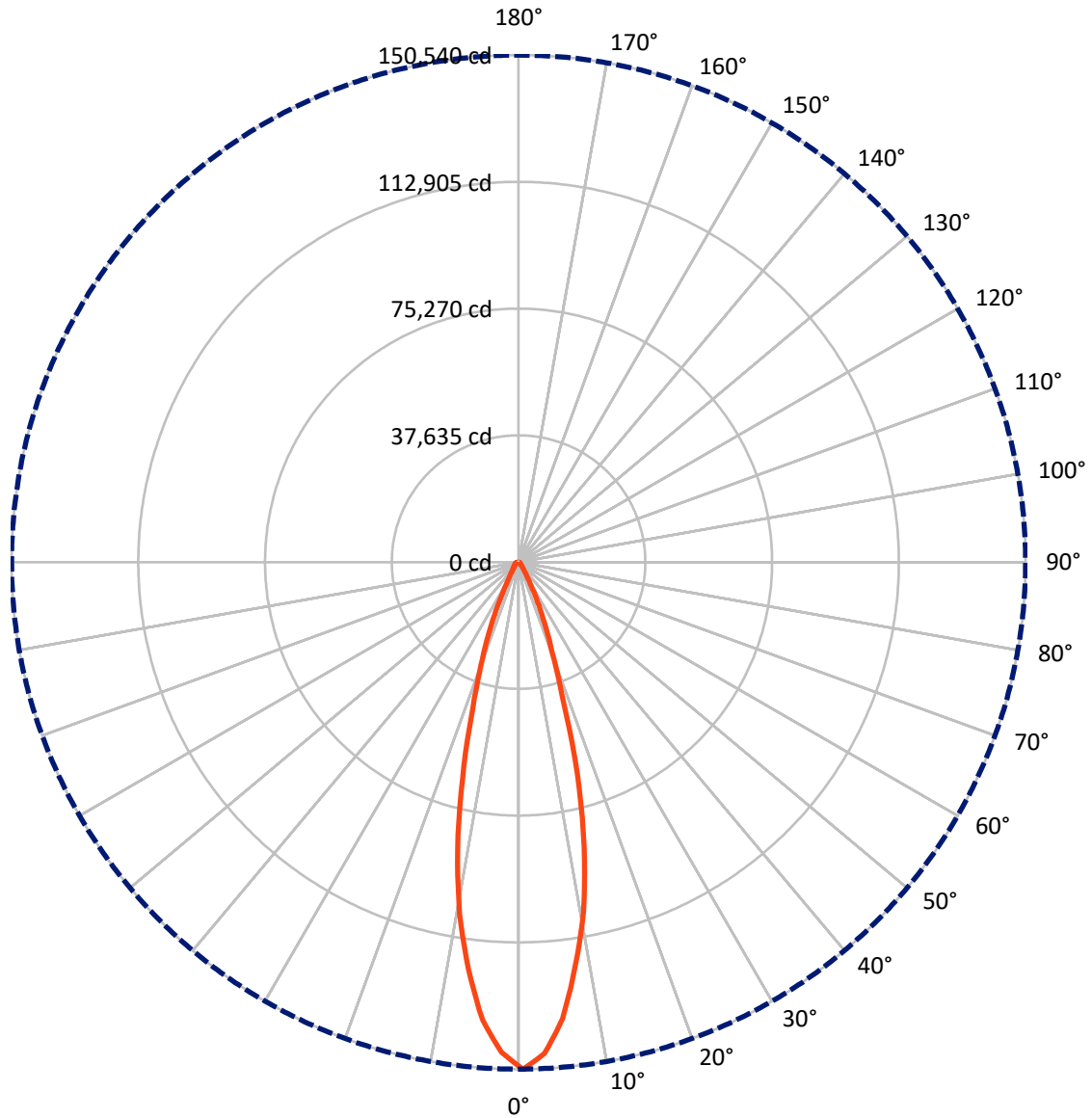
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 376.4 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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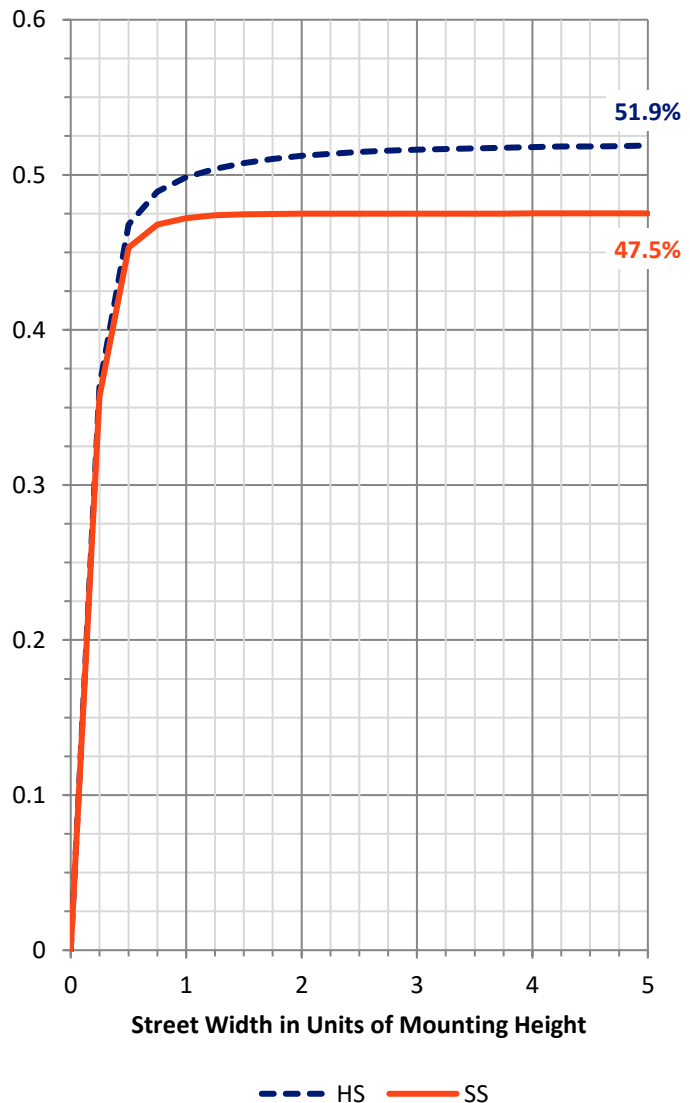
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22526.9	0.0	22526.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	20196.9	0.0	20196.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	42723.8	0.0	42723.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12149.9	28.4
10°-20°	18401.0	43.1
20°-30°	7765.3	18.2
30°-40°	2025.3	4.7
40°-50°	1024.4	2.4
50°-60°	669.6	1.6
60°-70°	401.1	0.9
70°-80°	211.0	0.5
80°-90°	76.2	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°	42723.8	100.0
0°-180°	42723.8	100.0



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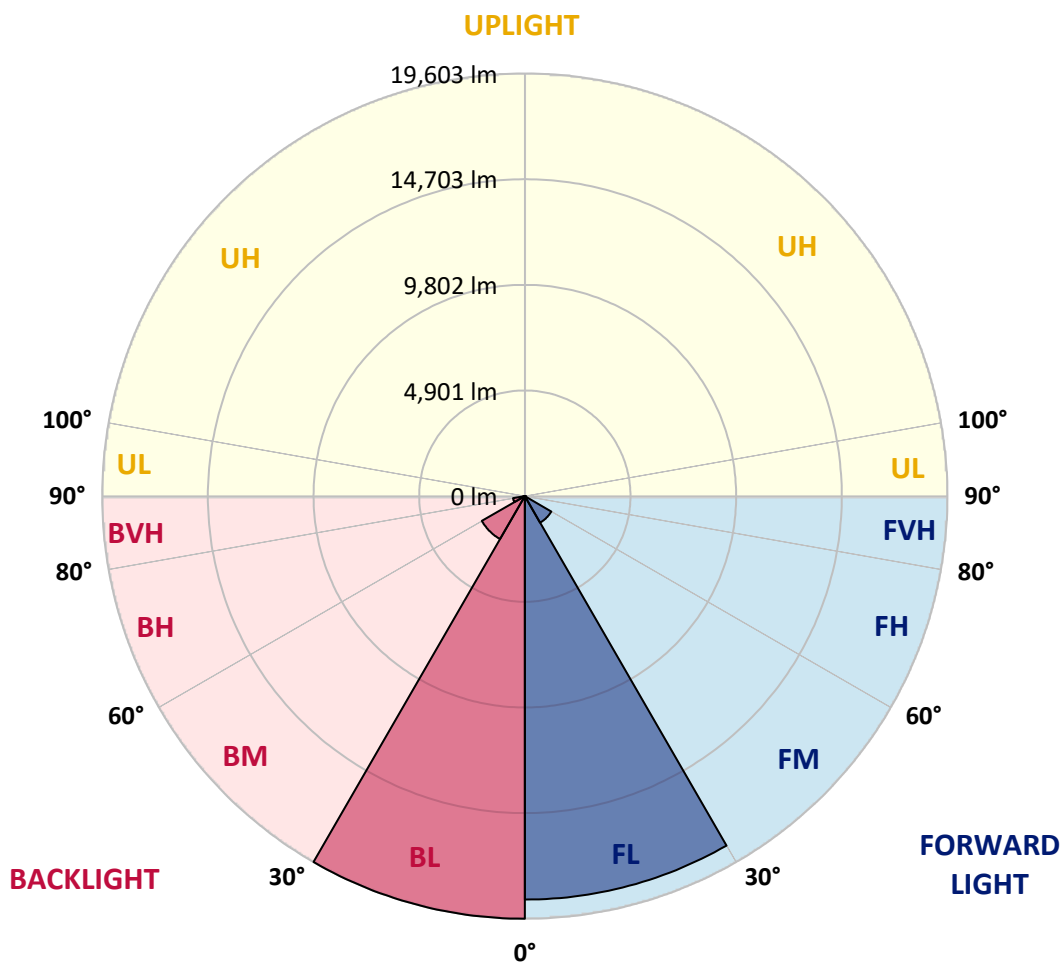
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18712.7	43.8			
FM (30°-60°)	1417.2	3.3			
FH (60°-80°)	57.8	0.1			G0/660
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	19603.5	45.9	B5		
BM (30°-60°)	2302.0	5.4	B2/2500		
BH (60°-80°)	554.4	1.3	B2/1000		G0/660
BVH (80°-90°)	67.0	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°	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1
2.5°	146154.8	146236.4	145934.1	146586.6	146078.1	147440.7	146764.2	147819.7	147464.7	148054.8
5°	136175.1	136040.8	135954.4	136966.8	136674.1	138137.5	137201.9	136894.8	137844.8	137672.1
7.5°	121104.8	121459.8	121258.3	121522.2	121670.9	123340.6	123868.4	123455.8	123470.2	123710.1
10°	105655.4	105132.4	104388.8	104882.9	105928.9	106658.2	106365.5	106970.1	106835.7	107406.7
12.5°	86646.0	87058.6	86641.2	86199.8	88027.8	87826.3	88334.9	88665.9	87835.9	89683.1
15°	65266.4	65482.3	65990.9	65957.3	67363.1	67646.1	67579.0	67929.2	67281.5	67588.6
17.5°	41929.2	42658.5	44025.9	46338.5	48939.0	49241.2	49164.5	48876.6	48564.7	48219.3
20°	28163.9	28087.1	28581.3	29257.8	34641.1	36066.1	36022.9	35120.9	33815.9	33566.4
22.5°	19729.1	19873.1	19805.9	20477.6	21590.7	25520.2	25035.6	24119.2	23692.2	23413.9
25°	12978.4	12925.6	13261.5	13463.0	14417.8	14897.6	16596.1	16255.4	15598.1	15670.1
27.5°	7911.8	7979.0	8103.7	8276.4	8953.0	8799.4	9768.6	9898.1	9687.0	9461.5
30°	4855.5	4903.5	5004.3	5129.0	5364.1	5196.2	5464.9	5930.3	5853.5	5695.2
32.5°	3296.2	3301.0	3373.0	3420.9	3392.1	3233.8	3320.2	3761.6	3771.2	3756.8
35°	2370.2	2370.2	2437.4	2475.7	2394.2	2264.6	2279.0	2552.5	2672.5	2696.4
37.5°	1636.1	1640.9	1756.0	1871.2	1780.0	1746.4	1688.9	1871.2	2063.1	2091.9
40°	1242.7	1237.9	1295.4	1381.8	1391.4	1329.0	1348.2	1463.4	1660.1	1684.1
42.5°	1007.6	1012.4	1041.2	1031.6	1036.4	1117.9	1146.7	1199.5	1381.8	1425.0
45°	849.2	854.0	868.4	820.4	801.3	926.0	964.4	993.2	1146.7	1199.5
47.5°	700.5	710.1	724.5	671.7	662.1	743.7	810.9	839.6	974.0	1031.6
50°	503.8	513.4	566.2	537.4	566.2	585.3	676.5	719.7	810.9	887.6
52.5°	364.6	374.2	388.6	393.4	465.4	475.0	542.2	609.3	652.5	738.9
55°	287.9	297.5	287.9	278.3	340.7	393.4	417.4	489.4	523.0	623.7
57.5°	163.1	172.7	187.1	215.9	225.5	302.3	326.3	388.6	417.4	513.4
60°	28.8	33.6	52.8	129.5	158.3	191.9	244.7	297.5	335.9	403.0
62.5°	4.8	4.8	9.6	28.8	91.2	134.3	177.5	211.1	244.7	307.1
65°	0.0	0.0	4.8	9.6	24.0	76.8	96.0	124.7	167.9	220.7
67.5°	0.0	0.0	4.8	9.6	14.4	28.8	43.2	76.8	96.0	148.7
70°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	33.6	57.6	91.2
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	28.8	28.8	57.6
75°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	28.8	24.0	24.0
77.5°	0.0	0.0	4.8	9.6	19.2	28.8	33.6	28.8	19.2	19.2
80°	0.0	0.0	9.6	14.4	24.0	33.6	43.2	33.6	19.2	9.6
82.5°	0.0	0.0	9.6	19.2	24.0	38.4	52.8	43.2	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.8	38.4	52.8	38.4	19.2	4.8
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	28.8	24.0	9.6	4.8
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°
150540.1	0°	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1	150540.1
146936.9	2.5°	147781.3	148549.0	148707.3	148496.2	148803.3	148251.5	147829.3	146735.4	146078.1
137619.3	5°	138506.9	138391.8	139193.0	139456.9	139423.3	139001.1	138410.9	137748.8	137105.9
123244.7	7.5°	124012.3	124161.1	124890.4	125355.8	125120.7	124592.9	124185.1	123686.1	123254.3
107613.0	10°	108596.6	107574.6	108481.4	108481.4	109109.9	107617.8	107756.9	106499.9	106557.4
89649.5	12.5°	89956.6	90326.0	90474.7	90901.8	90167.7	89376.0	88406.8	88214.9	87615.2
67003.2	15°	67967.6	69023.2	68116.3	69666.1	68917.6	68092.4	67943.6	66456.3	66926.5
48598.3	17.5°	48358.4	49524.3	49889.0	50776.6	50095.3	49605.9	48987.0	48536.0	48502.4
34022.2	20°	34290.9	35461.6	35730.3	36795.4	36718.6	36565.1	36042.1	35471.2	34852.2
23159.7	22.5°	23509.9	24464.7	25357.1	26791.7	26767.7	26316.7	26263.9	25457.9	25472.3
15646.1	25°	15809.2	16504.9	16716.0	18184.2	18347.3	18299.3	18025.9	17277.4	17560.5
9557.5	27.5°	9567.1	10176.4	10891.3	11409.5	11898.9	11822.1	11548.6	11131.2	10948.9
5743.1	30°	5896.7	6170.1	6434.0	7057.8	7350.4	7504.0	7374.4	6985.8	7014.6
3780.8	32.5°	3862.3	4092.6	4284.6	4678.0	4831.5	5114.6	5061.8	4980.3	4884.3
2720.4	35°	2816.4	2984.3	3113.9	3296.2	3492.9	3732.8	3771.2	3737.6	3699.2
2101.5	37.5°	2149.5	2322.2	2470.9	2547.7	2701.2	2888.4	2993.9	2989.1	2960.3
1712.9	40°	1746.4	1876.0	2010.3	2111.1	2216.6	2355.8	2485.3	2499.7	2499.7
1439.4	42.5°	1458.6	1568.9	1703.3	1808.8	1885.6	2015.1	2149.5	2159.1	2149.5
1218.7	45°	1247.5	1343.4	1473.0	1597.7	1660.1	1756.0	1885.6	1914.4	1895.2
1046.0	47.5°	1084.3	1170.7	1281.0	1415.4	1482.6	1568.9	1688.9	1722.5	1717.7
902.0	50°	930.8	1031.6	1141.9	1252.3	1338.6	1420.2	1535.3	1573.7	1559.3
767.7	52.5°	820.4	911.6	1007.6	1127.5	1228.3	1300.2	1391.4	1458.6	1439.4
647.7	55°	686.1	796.5	897.2	998.0	1122.7	1199.5	1285.8	1367.4	1348.2
547.0	57.5°	594.9	686.1	801.3	892.4	1017.2	1108.3	1194.7	1281.0	1276.3
446.2	60°	499.0	594.9	705.3	801.3	916.4	1017.2	1103.5	1199.5	1209.1
335.9	62.5°	393.4	508.6	604.5	714.9	830.0	940.4	1017.2	1113.1	1127.5
254.3	65°	297.5	417.4	523.0	628.5	743.7	863.6	930.8	1012.4	1026.8
187.1	67.5°	220.7	321.5	446.2	542.2	662.1	777.3	839.6	906.8	930.8
115.2	70°	167.9	244.7	374.2	465.4	590.1	681.3	748.5	806.1	825.2
76.8	72.5°	105.6	191.9	302.3	398.2	508.6	590.1	638.1	671.7	700.5
43.2	75°	72.0	148.7	244.7	340.7	422.2	484.6	527.8	556.6	580.6
19.2	77.5°	43.2	115.2	201.5	283.1	335.9	383.8	427.0	446.2	460.6
14.4	80°	24.0	86.4	167.9	230.3	263.9	297.5	331.1	355.0	364.6
9.6	82.5°	14.4	67.2	134.3	177.5	191.9	225.5	259.1	273.5	273.5
4.8	85°	9.6	48.0	91.2	129.5	139.1	163.1	172.7	182.3	191.9
4.8	87.5°	9.6	28.8	57.6	72.0	76.8	86.4	91.2	100.8	110.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
150540.1
145593.5
136386.2
121790.9
105996.1
87068.2
66456.3
47609.9
34583.5
25194.0
17114.2
10790.6
6889.8
4850.7
3684.8
2945.9
2470.9
2139.9
1895.2
1708.1
1549.7
1434.6
1357.8
1281.0
1213.9
1137.1
1041.2
940.4
834.8
695.7
575.8
455.8
355.0
268.7
187.1
105.6
0.0

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