

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: P637750

Luminaire Tested: **IFLD-L-SA8C-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637750
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34984 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 420.3
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



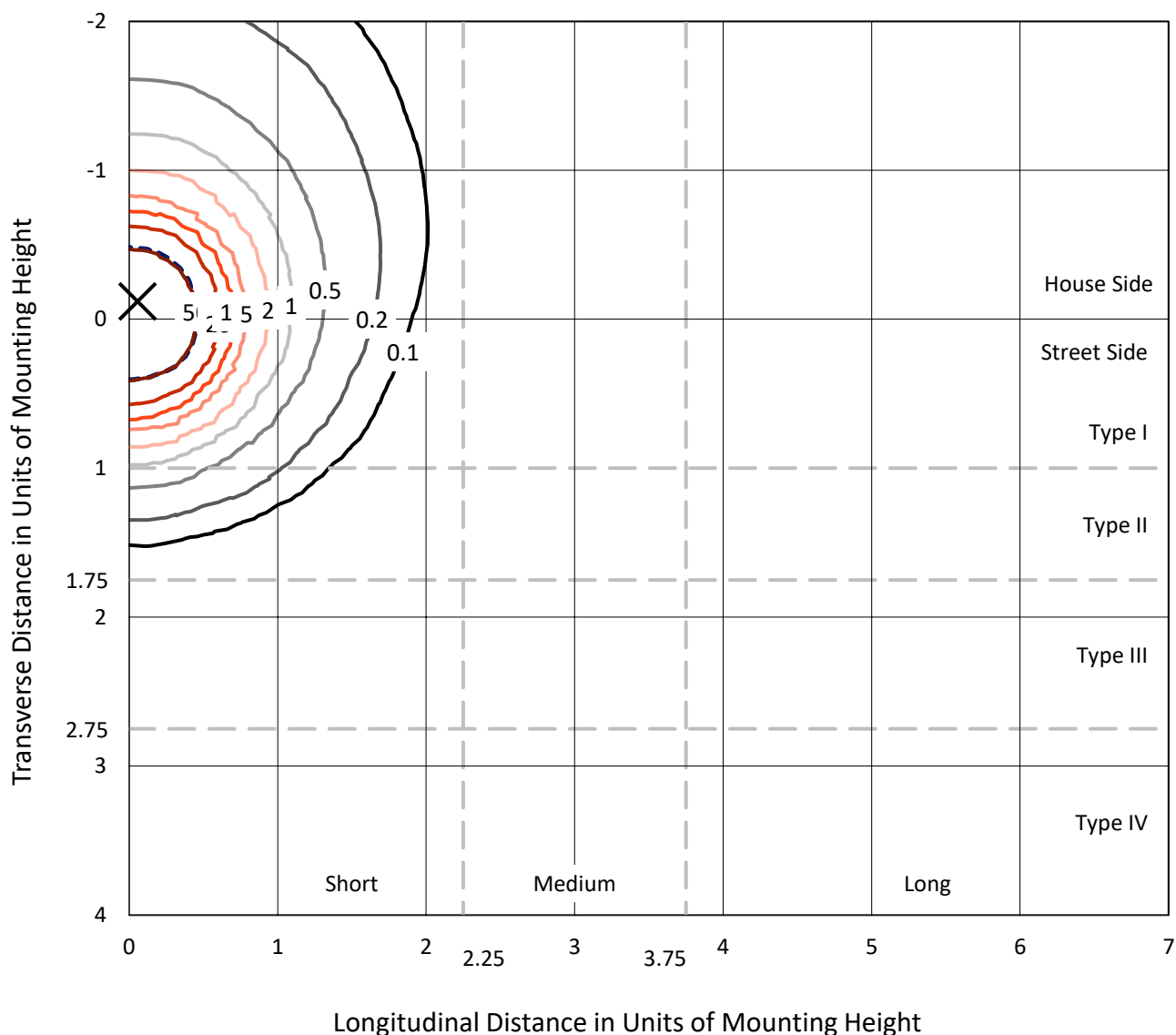
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



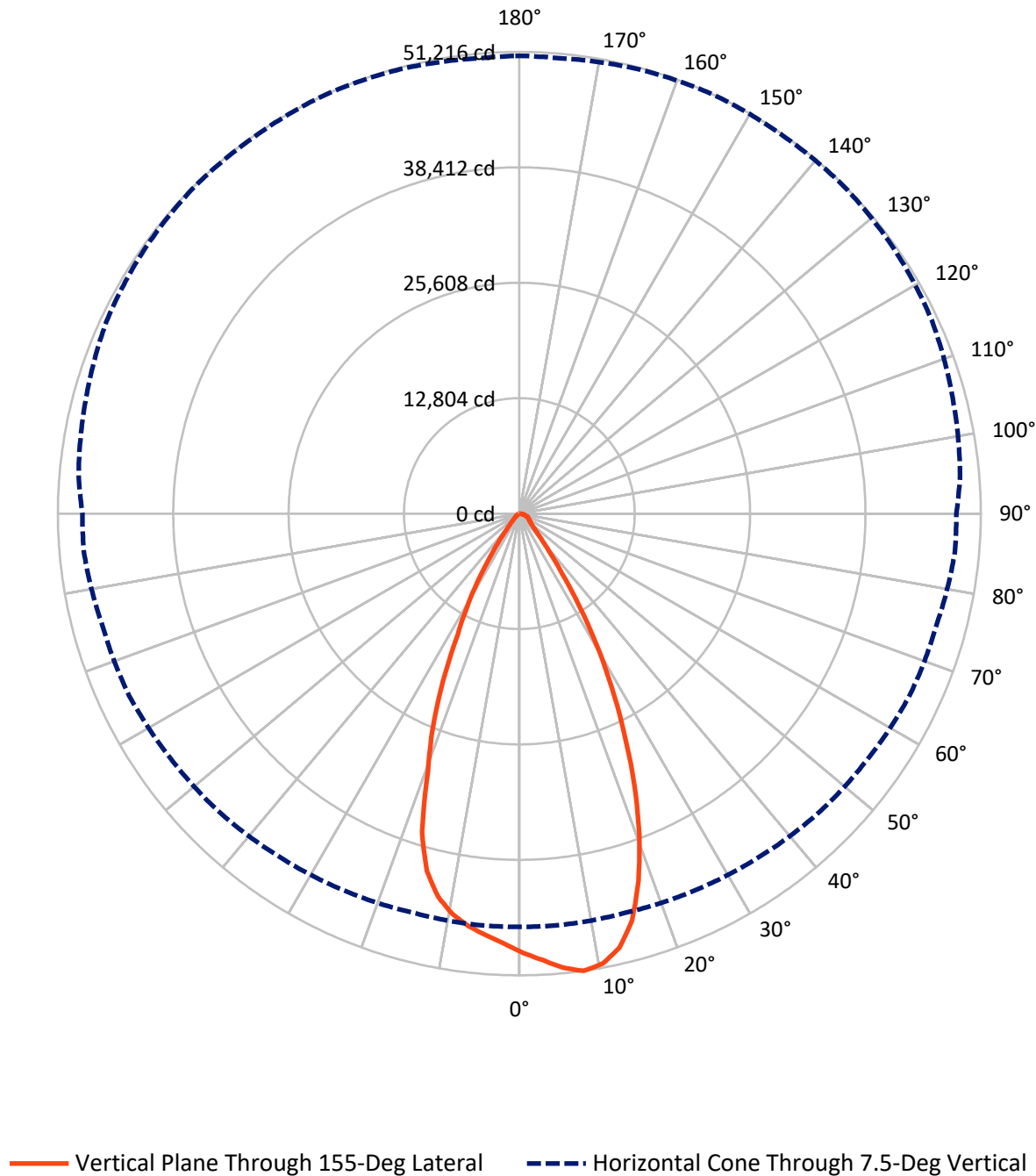
Based on 20 foot mounting height. Maximum calculated value = 123.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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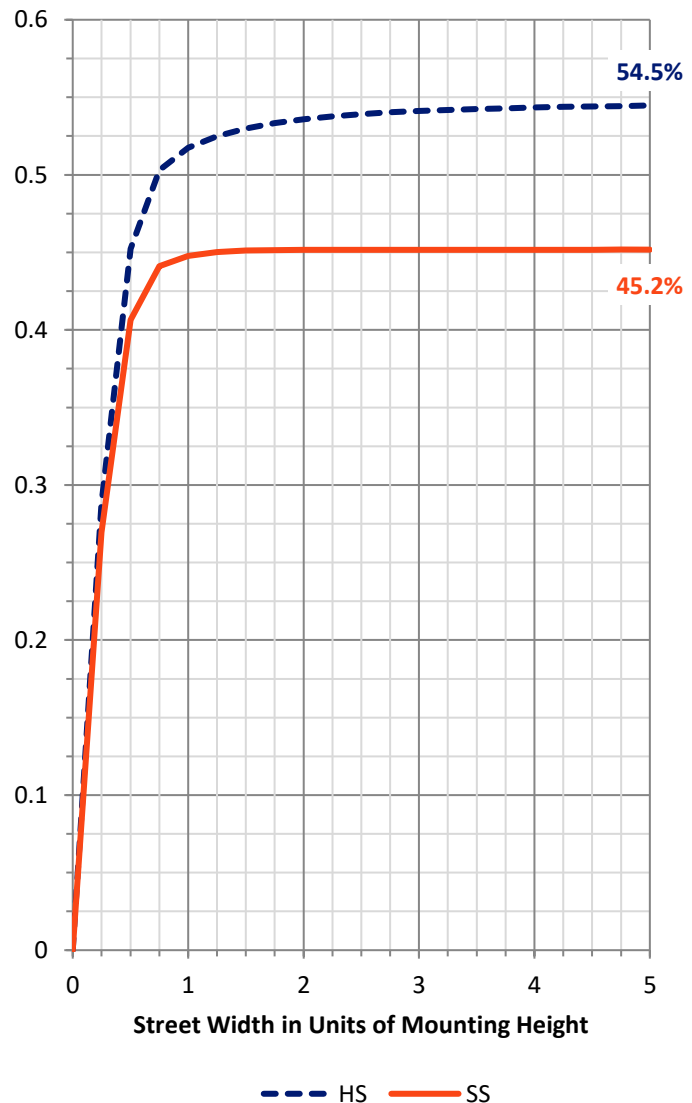
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19312.4	0.0	19312.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15671.5	0.0	15671.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	34984.0	0.0	34984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4647.2	13.3
10°-20°	12050.3	34.4
20°-30°	11041.4	31.6
30°-40°	4460.7	12.8
40°-50°	1308.6	3.7
50°-60°	731.6	2.1
60°-70°	444.4	1.3
70°-80°	225.8	0.6
80°-90°	73.8	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°	34984.0	100.0
0°-180°	34984.0	100.0

Coefficient of Utilization



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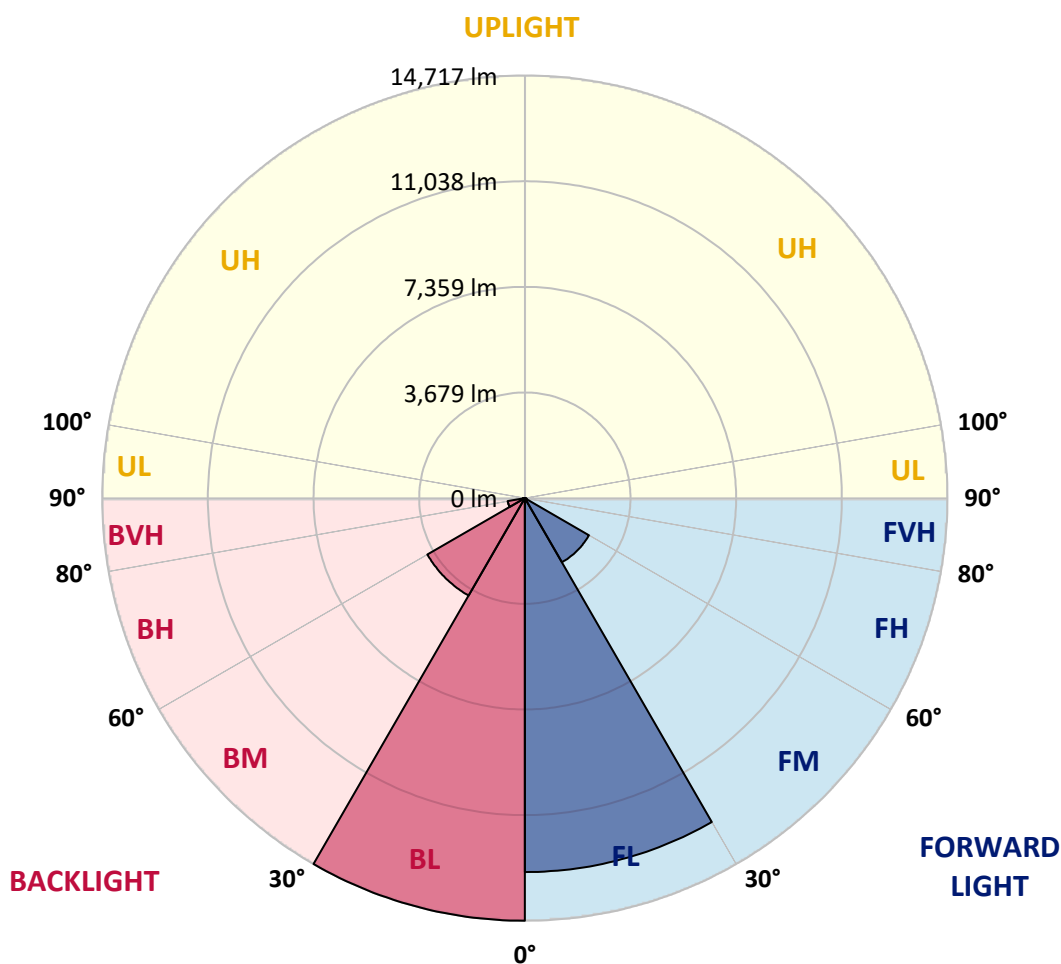
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13021.9	37.2			
FM	(30°-60°)	2580.7	7.4			
FH	(60°-80°)	62.5	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	14717.1	42.1	B5		
BM	(30°-60°)	3920.3	11.2	B3/5000		
BH	(60°-80°)	607.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	67.4	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4
2.5°	47678.5	47839.8	47517.1	47730.9	47896.3	48291.6	48323.9	48461.1	48509.5	48868.5
5°	46774.8	46899.9	46637.7	46924.1	47158.1	47509.0	47779.3	48158.5	48368.3	48791.9
7.5°	45834.9	45863.1	45810.7	46113.3	46464.2	46948.3	47283.1	47779.3	47908.4	48513.5
10°	44697.3	44491.6	44592.4	45036.2	45560.6	46302.9	46532.8	47029.0	47258.9	47876.1
12.5°	42882.0	42986.9	42861.8	43426.6	43862.3	44705.4	44947.4	45447.6	45887.4	46431.9
15°	40324.4	40263.9	40518.0	40957.7	41429.7	42099.4	42490.7	43035.3	43370.1	43934.9
17.5°	34575.9	34781.6	35830.5	36931.8	37899.9	38682.5	39150.5	39602.3	39844.3	40457.5
20°	29860.1	29601.9	29743.1	30364.3	33119.6	34317.7	34809.8	34918.8	35019.6	35503.7
22.5°	24587.6	24502.8	24974.8	25672.7	26326.2	29089.6	29759.2	29505.1	29714.8	30170.7
25°	18258.1	18685.7	19105.3	20444.6	21291.7	22647.2	23917.9	24030.9	24107.5	24393.9
27.5°	14861.5	14712.2	14704.1	15079.3	16329.8	17459.4	18540.5	18790.6	18746.2	19020.6
30°	11682.6	11634.2	11464.8	11553.5	11428.5	12433.0	12941.2	13969.9	13913.4	13921.5
32.5°	8427.1	8245.6	8177.0	8310.1	8181.1	8088.3	8532.0	9693.8	9673.7	9754.3
35°	5099.0	5074.8	5131.3	5248.3	4990.1	4982.1	5074.8	6168.1	6301.2	6430.3
37.5°	2815.8	2791.6	2835.9	3267.6	3182.9	3106.2	3130.4	3707.3	4090.5	4187.3
40°	1855.7	1851.6	1883.9	1960.5	2105.8	2077.5	2089.6	2347.8	2710.9	2795.6
42.5°	1242.5	1246.5	1266.7	1355.4	1375.6	1520.8	1496.6	1557.1	1896.0	1968.6
45°	992.4	988.3	1000.4	960.1	984.3	1133.6	1149.7	1153.7	1444.2	1488.6
47.5°	782.6	782.6	794.7	742.3	730.2	822.9	907.7	919.8	1153.7	1214.2
50°	548.6	548.6	609.1	584.9	613.2	641.4	734.2	746.3	944.0	1008.5
52.5°	403.4	411.5	419.5	423.6	516.4	512.3	593.0	649.5	714.0	827.0
55°	306.6	314.7	294.5	314.7	383.2	427.6	443.7	524.4	568.8	693.9
57.5°	201.7	221.9	205.7	242.0	258.2	330.8	355.0	431.6	459.9	568.8
60°	28.2	32.3	52.4	169.4	181.5	217.8	274.3	342.9	371.1	463.9
62.5°	4.0	4.0	12.1	28.2	121.0	145.2	205.7	238.0	274.3	346.9
65°	0.0	0.0	4.0	8.1	24.2	84.7	104.9	129.1	189.6	250.1
67.5°	0.0	0.0	4.0	8.1	12.1	28.2	44.4	84.7	108.9	173.5
70°	0.0	0.0	4.0	8.1	12.1	16.1	24.2	32.3	64.5	100.9
72.5°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	24.2	28.2	64.5
75°	0.0	0.0	4.0	8.1	12.1	20.2	24.2	24.2	24.2	28.2
77.5°	0.0	0.0	4.0	8.1	16.1	24.2	28.2	24.2	20.2	20.2
80°	0.0	0.0	4.0	12.1	20.2	28.2	32.3	24.2	16.1	12.1
82.5°	0.0	0.0	4.0	12.1	20.2	28.2	32.3	28.2	16.1	12.1
85°	0.0	0.0	4.0	12.1	16.1	20.2	32.3	28.2	16.1	8.1
87.5°	0.0	0.0	0.0	4.0	4.0	8.1	16.1	12.1	8.1	4.0
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°
48735.4	0°	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4	48735.4
48860.4	2.5°	49223.5	49405.0	49723.7	49812.5	50086.8	49772.1	49598.7	49614.8	49239.6
48739.4	5°	49223.5	49639.0	50195.7	50462.0	50663.7	50647.5	50603.2	50490.2	50215.9
48497.4	7.5°	49094.4	49772.1	50538.6	50893.6	51135.7	51115.5	51216.3	51034.8	50700.0
48065.7	10°	48678.9	49267.9	50211.9	50502.3	50893.6	50901.7	50776.6	50812.9	50215.9
46488.4	12.5°	47371.9	47831.8	48658.7	48989.5	49465.6	49542.2	49405.0	49352.6	48787.8
43902.6	15°	44842.5	45108.8	45939.8	46270.6	46742.6	46678.0	46815.2	46758.7	46262.5
40409.1	17.5°	41143.3	41228.0	42099.4	42377.7	42821.5	42994.9	42789.2	43051.4	42623.8
35588.4	20°	35838.5	36294.4	37274.6	37702.3	37960.4	38271.1	38000.8	38295.3	37795.0
29739.0	22.5°	30457.1	30727.4	31614.9	32232.1	32712.1	32772.6	32671.8	32877.5	32203.8
24583.5	25°	24579.5	25027.3	25729.2	26536.0	27008.0	27298.4	27036.2	27169.3	27060.4
19064.9	27.5°	19387.7	19787.0	20315.5	20916.6	21626.6	22005.8	21796.0	22021.9	21489.4
14216.0	30°	14228.1	14429.8	15026.8	15664.2	16442.8	16902.7	16922.9	17152.8	16838.1
9960.1	32.5°	10032.7	10210.2	10577.3	11000.9	11743.1	12255.5	12174.8	12207.0	12013.4
6490.8	35°	6523.1	6761.1	7023.3	7225.0	7672.8	8237.5	8193.2	8152.8	8019.7
4268.0	37.5°	4360.8	4453.6	4598.8	4780.4	5070.8	5425.8	5542.8	5397.6	5341.1
2880.3	40°	2948.9	3110.3	3207.1	3344.2	3481.4	3779.9	3860.6	3832.4	3775.9
2017.0	42.5°	2093.7	2218.7	2339.8	2472.9	2545.5	2731.1	2888.4	2844.0	2819.8
1532.9	45°	1589.4	1702.4	1843.6	1944.4	2017.0	2125.9	2275.2	2291.3	2255.0
1230.4	47.5°	1274.8	1375.6	1488.6	1613.6	1698.3	1766.9	1896.0	1944.4	1920.2
1036.8	50°	1081.1	1157.8	1266.7	1391.7	1484.5	1545.0	1658.0	1710.4	1694.3
867.3	52.5°	919.8	1012.5	1113.4	1218.3	1331.2	1391.7	1496.6	1573.3	1561.2
718.1	55°	762.4	883.5	988.3	1093.2	1222.3	1282.8	1375.6	1476.5	1456.3
609.1	57.5°	665.6	766.5	875.4	976.2	1113.4	1194.1	1278.8	1383.7	1379.6
500.2	60°	556.7	657.6	778.6	863.3	1008.5	1121.5	1198.1	1307.0	1315.1
379.2	62.5°	443.7	568.8	661.6	778.6	911.7	1044.8	1117.4	1226.4	1266.7
290.5	65°	330.8	468.0	572.8	689.8	814.9	964.1	1028.7	1137.6	1177.9
209.8	67.5°	246.1	351.0	484.1	584.9	726.1	855.2	931.9	1032.7	1061.0
125.1	70°	185.6	270.3	403.4	492.2	637.4	742.3	818.9	895.6	931.9
84.7	72.5°	108.9	201.7	318.7	423.6	548.6	637.4	693.9	754.4	778.6
40.3	75°	76.6	153.3	250.1	351.0	443.7	516.4	568.8	621.2	645.4
20.2	77.5°	40.3	113.0	197.7	282.4	346.9	407.4	459.9	500.2	516.4
16.1	80°	24.2	80.7	161.4	221.9	266.2	318.7	371.1	399.4	395.3
12.1	82.5°	16.1	64.5	117.0	161.4	193.6	234.0	270.3	290.5	290.5
8.1	85°	12.1	44.4	80.7	125.1	129.1	161.4	169.4	189.6	193.6
8.1	87.5°	8.1	28.2	44.4	72.6	68.6	84.7	88.7	100.9	108.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48735.4
48937.1
50304.6
50776.6
50042.4
48658.7
46419.8
42518.9
37754.7
32111.1
26991.8
21626.6
16894.6
12122.3
7902.7
5329.0
3783.9
2799.6
2251.0
1908.1
1690.3
1553.1
1456.3
1375.6
1315.1
1262.7
1173.9
1061.0
923.8
770.5
637.4
512.3
391.3
286.4
189.6
104.9
0.0

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