

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: P636522

Luminaire Tested: **IFLD-M-SA4C-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17000.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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



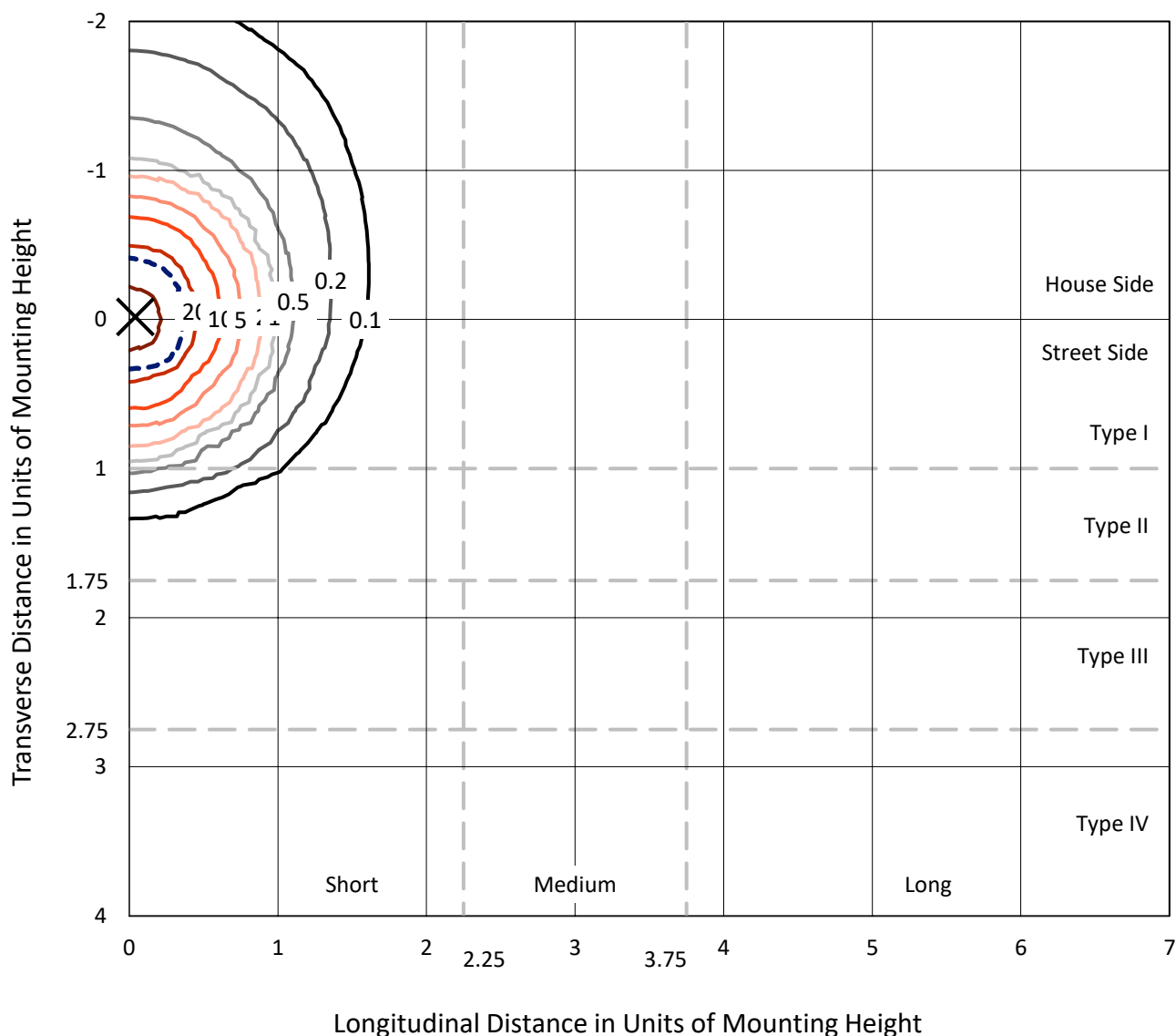
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

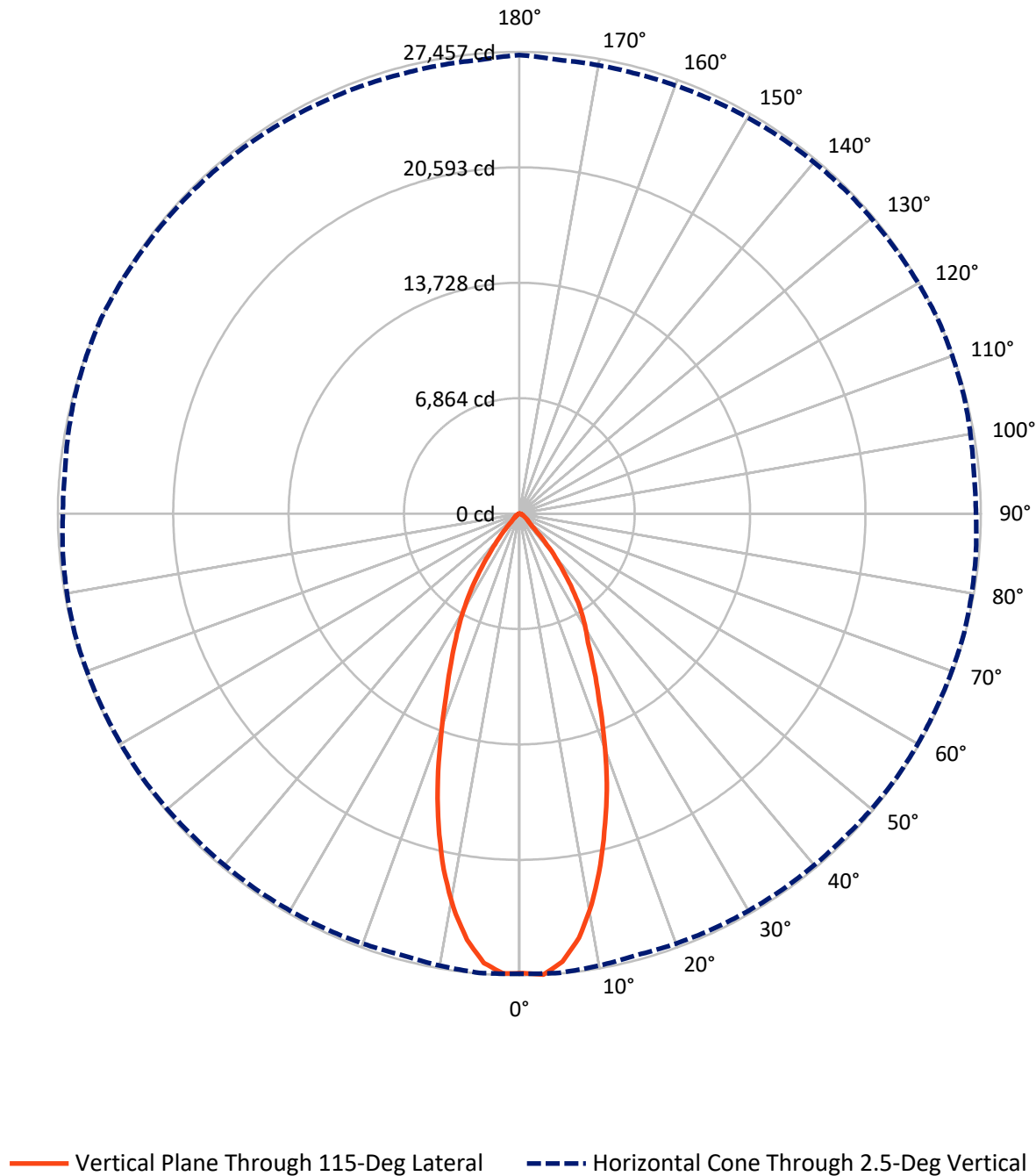


Based on 20 foot mounting height. Maximum calculated value = 68.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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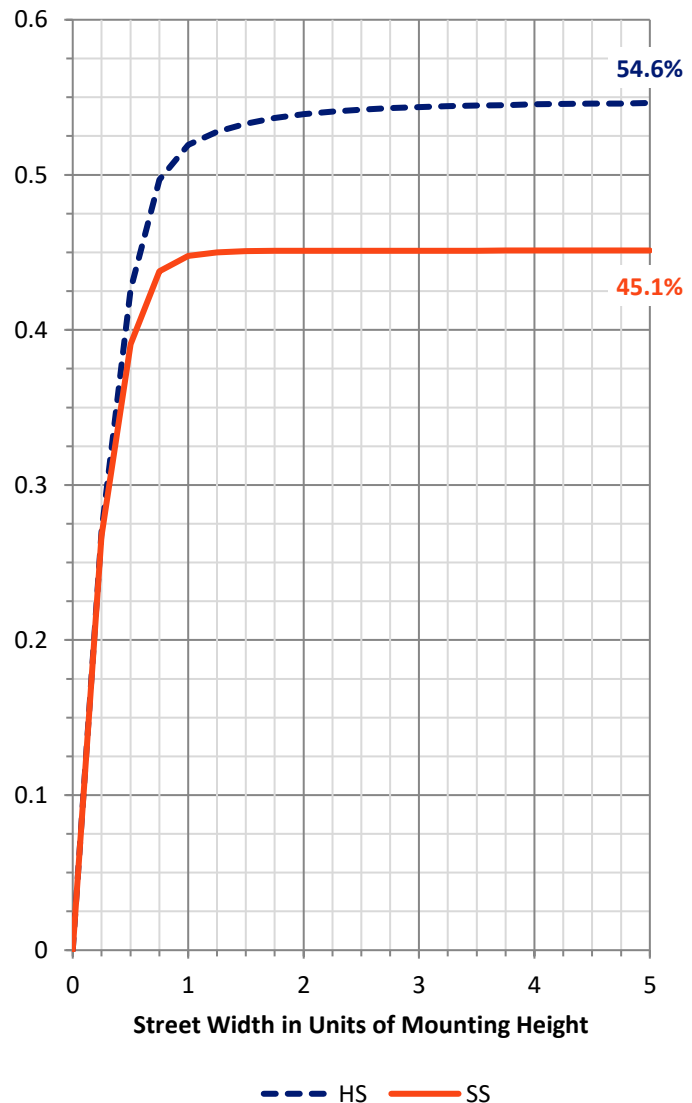
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9382.3	0.0	9382.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7618.2	0.0	7618.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	17000.5	0.0	17000.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2451.1	14.4
10°-20°	5180.4	30.5
20°-30°	4675.6	27.5
30°-40°	3094.1	18.2
40°-50°	926.9	5.5
50°-60°	371.8	2.2
60°-70°	192.5	1.1
70°-80°	83.6	0.5
80°-90°	24.3	0.1
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°	17000.5	100.0
0°-180°	17000.5	100.0

Coefficient of Utilization



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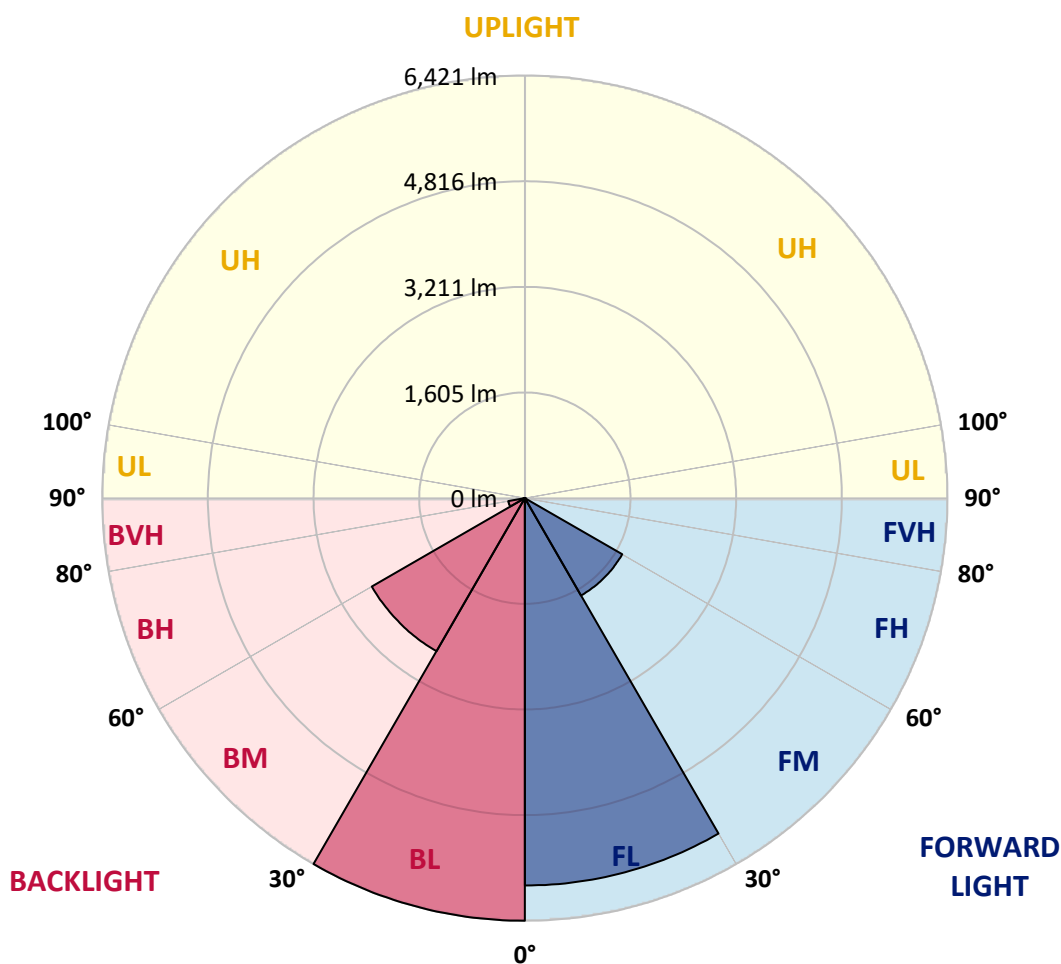
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5885.7	34.6			
FM	(30°-60°)	1707.8	10.0			
FH	(60°-80°)	21.2	0.1			G0/660
FVH	(80°-90°)	3.5	0.0			G0/10
BL	(0°-30°)	6421.5	37.8	B5		
BM	(30°-60°)	2685.0	15.8	B3/5000		
BH	(60°-80°)	255.0	1.5	B1/500		G1/500
BVH	(80°-90°)	20.8	0.1			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2
2.5°	27363.0	27411.7	27168.3	27251.7	27286.5	27296.9	27383.8	27369.9	27394.3	27265.6
5°	27001.4	26907.5	26726.7	26730.2	26719.8	26622.4	26820.6	26806.7	26765.0	26612.0
7.5°	25770.6	25906.2	25565.4	25558.5	25551.5	25433.3	25694.1	25534.1	25568.9	25349.9
10°	23969.6	23986.9	23684.5	23656.6	23681.0	23528.0	23830.5	23767.9	23834.0	23604.5
12.5°	21761.7	21859.1	21525.3	21476.6	21574.0	21358.4	21601.8	21633.1	21535.7	21504.5
15°	17068.0	17325.3	17958.0	18924.6	19174.9	18994.2	19188.9	19185.4	19227.1	18990.7
17.5°	13003.5	13027.8	12878.3	13340.8	16017.9	16887.2	16928.9	16598.6	16348.3	16261.3
20°	11352.0	11435.4	11299.8	11338.1	11765.7	14314.3	14411.6	13914.4	13486.8	13452.0
22.5°	10037.7	10089.9	9992.5	10023.8	10044.7	10343.7	12036.9	11598.8	11393.7	11237.3
25°	8925.1	8925.1	8873.0	8883.4	8862.5	8421.0	9290.2	9790.9	9672.7	9617.0
27.5°	7909.9	7923.8	7857.7	7896.0	7642.2	6929.4	6825.1	8302.8	8177.6	8076.8
30°	6946.8	6992.0	6929.4	6950.3	6397.4	5813.3	5514.3	6925.9	7082.4	7054.6
32.5°	5229.2	5434.4	5938.5	5959.4	5208.4	4759.8	4627.7	5559.5	6154.1	6101.9
35°	3240.4	3230.0	3250.9	4252.2	3994.9	3689.0	3737.6	4200.1	4871.1	4846.8
37.5°	2472.1	2468.6	2506.8	2406.0	2618.1	2798.9	2837.1	2837.1	3556.8	3560.3
40°	1874.0	1860.1	1856.6	1696.7	1422.0	2100.0	2037.4	1985.3	2472.1	2524.2
42.5°	1196.0	1237.8	1206.5	1032.6	928.3	1147.4	1279.5	1237.8	1526.3	1564.6
45°	667.6	667.6	639.7	542.4	538.9	580.6	730.1	681.5	782.3	834.4
47.5°	323.3	316.4	347.7	427.7	445.0	431.1	521.5	542.4	591.1	639.7
50°	260.8	260.8	246.9	222.5	368.5	354.6	385.9	413.7	441.6	483.3
52.5°	219.0	219.0	201.7	187.8	212.1	271.2	274.7	326.8	323.3	382.5
55°	111.3	114.7	163.4	163.4	142.6	222.5	226.0	264.2	271.2	319.9
57.5°	10.4	13.9	20.9	100.8	111.3	121.7	170.4	194.7	226.0	246.9
60°	3.5	3.5	7.0	13.9	66.1	83.4	107.8	128.6	156.5	205.1
62.5°	0.0	0.0	3.5	7.0	13.9	52.2	59.1	66.1	93.9	128.6
65°	0.0	0.0	3.5	3.5	7.0	17.4	24.3	41.7	59.1	80.0
67.5°	0.0	0.0	3.5	3.5	7.0	10.4	13.9	20.9	27.8	52.2
70°	0.0	0.0	3.5	3.5	7.0	10.4	10.4	13.9	17.4	24.3
72.5°	0.0	0.0	3.5	3.5	7.0	13.9	10.4	10.4	13.9	17.4
75°	0.0	0.0	3.5	3.5	7.0	10.4	10.4	10.4	10.4	10.4
77.5°	0.0	0.0	3.5	3.5	7.0	10.4	10.4	10.4	7.0	7.0
80°	0.0	0.0	3.5	3.5	7.0	10.4	13.9	13.9	7.0	7.0
82.5°	0.0	0.0	3.5	7.0	7.0	17.4	20.9	17.4	7.0	3.5
85°	0.0	0.0	3.5	3.5	10.4	17.4	17.4	10.4	7.0	3.5
87.5°	0.0	0.0	0.0	3.5	3.5	7.0	10.4	10.4	3.5	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°
27328.2	0°	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2	27328.2
27161.3	2.5°	27147.4	27359.5	27456.9	27356.0	27307.4	27237.8	27137.0	27067.4	27081.4
26528.5	5°	26469.4	26691.9	26768.4	26681.5	26608.5	26570.3	26552.9	26587.6	26678.0
25256.0	7.5°	25249.0	25391.6	25475.0	25433.3	25332.5	25447.2	25478.5	25457.7	25589.8
23534.9	10°	23541.9	23698.4	23621.9	23639.3	23521.0	23580.1	23562.8	23639.3	23771.4
21480.1	12.5°	21341.0	21490.5	21431.4	21421.0	21295.8	21407.1	21337.6	21421.0	21594.9
18893.3	15°	19028.9	19122.8	19084.6	19025.4	18914.2	18952.4	19168.0	19154.1	19230.6
16209.2	17.5°	16139.6	16591.6	16838.5	16890.6	16800.2	16876.7	17029.7	16991.5	17165.3
13379.0	20°	13354.7	13810.1	14418.6	14912.3	14922.7	14933.2	15030.5	15054.9	15204.4
11240.7	22.5°	11192.1	11515.4	12169.1	12822.7	13274.7	13368.6	13358.1	13392.9	13434.6
9540.5	25°	9516.2	9752.6	10350.6	10802.6	11595.4	11859.6	11936.1	11859.6	11883.9
8042.0	27.5°	8132.4	8494.0	8692.2	9175.5	9950.8	10562.7	10538.4	10493.2	10500.2
6998.9	30°	6995.5	7384.9	7676.9	7823.0	8407.1	9290.2	9380.6	9252.0	9255.4
6077.6	32.5°	6039.3	6161.0	6592.1	6710.4	7085.9	7889.0	8198.5	8101.1	8083.7
4860.7	35°	5003.2	5069.3	5267.5	5500.4	5722.9	6331.4	6842.5	6752.1	6797.3
3574.2	37.5°	3560.3	3831.5	4022.7	4214.0	4373.9	4756.4	5371.8	5288.3	5333.5
2531.2	40°	2510.3	2632.0	2962.3	3045.7	3282.2	3459.5	3981.0	3953.2	4008.8
1571.5	42.5°	1543.7	1630.7	1797.5	1877.5	2037.4	2138.3	2444.2	2479.0	2552.0
869.2	45°	876.2	914.4	1029.2	1116.1	1234.3	1276.0	1383.8	1432.5	1474.2
674.5	47.5°	667.6	709.3	785.8	862.3	959.6	994.4	1070.9	1143.9	1182.1
521.5	50°	545.9	584.1	664.1	726.7	824.0	855.3	917.9	997.9	1046.5
396.4	52.5°	413.7	469.4	566.7	632.8	733.6	771.9	831.0	910.9	956.1
326.8	55°	340.7	382.5	469.4	559.8	653.7	705.8	744.1	841.4	890.1
267.7	57.5°	292.1	323.3	379.0	486.8	566.7	643.2	674.5	764.9	813.6
212.1	60°	222.5	271.2	319.9	403.3	493.7	573.7	608.5	688.4	726.7
153.0	62.5°	184.3	215.6	278.1	323.3	424.2	507.6	542.4	615.4	643.2
100.8	65°	128.6	173.8	233.0	260.8	354.6	434.6	483.3	538.9	566.7
59.1	67.5°	76.5	128.6	184.3	222.5	288.6	368.5	420.7	472.9	497.2
34.8	70°	48.7	100.8	146.0	187.8	226.0	302.5	365.1	410.3	399.8
20.9	72.5°	27.8	62.6	107.8	153.0	187.8	253.8	312.9	347.7	246.9
13.9	75°	17.4	45.2	90.4	125.2	153.0	201.7	257.3	264.2	153.0
7.0	77.5°	13.9	34.8	69.5	100.8	104.3	149.5	180.8	205.1	114.7
7.0	80°	7.0	27.8	59.1	83.4	66.1	104.3	139.1	159.9	90.4
3.5	82.5°	7.0	17.4	45.2	59.1	48.7	80.0	100.8	114.7	76.5
3.5	85°	3.5	13.9	24.3	34.8	34.8	52.2	45.2	55.6	48.7
3.5	87.5°	3.5	7.0	13.9	17.4	13.9	20.9	24.3	24.3	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27328.2
27269.1
26865.8
25721.9
23823.5
21626.1
19248.0
17137.5
15173.1
13358.1
11845.7
10510.6
9258.9
8125.4
6839.0
5371.8
4029.7
2635.5
1470.7
1199.5
1067.4
987.4
904.0
834.4
733.6
646.7
566.7
493.7
368.5
219.0
142.6
114.7
93.9
83.4
48.7
17.4
0.0

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