

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: P636438

Luminaire Tested: **IFLD-L-SA7A-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636438
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16397.8 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 217.6
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



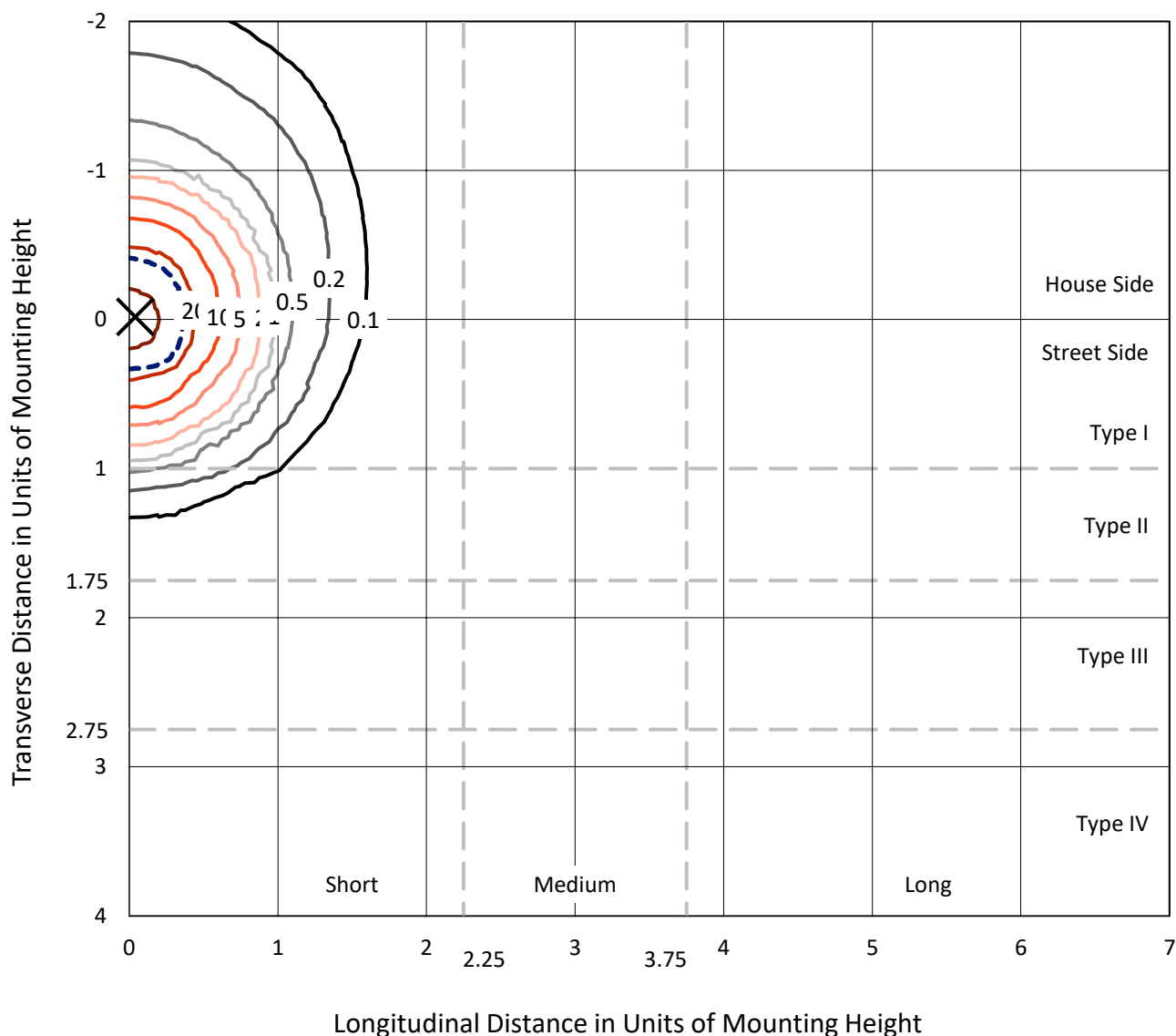
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

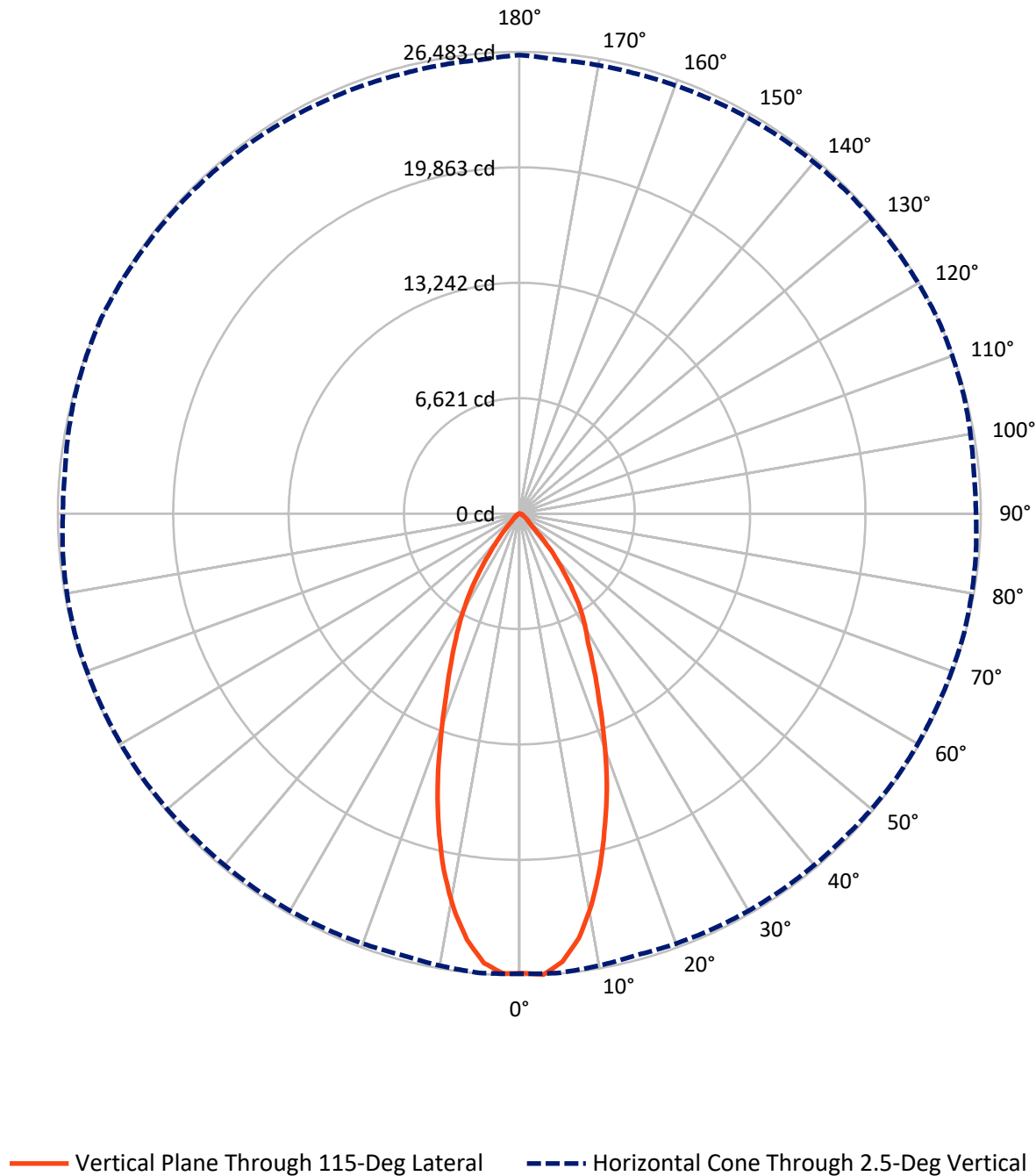


Based on 20 foot mounting height. Maximum calculated value = 65.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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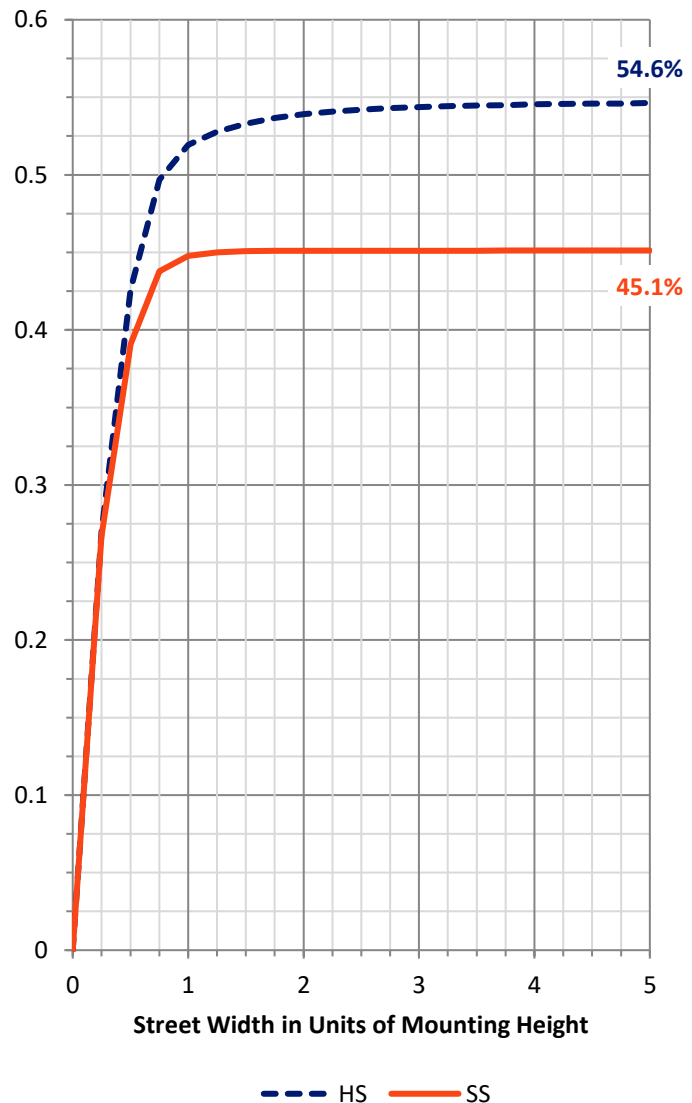
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9049.6	0.0	9049.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7348.1	0.0	7348.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	16397.8	0.0	16397.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2364.2	14.4
10°-20°	4996.7	30.5
20°-30°	4509.9	27.5
30°-40°	2984.4	18.2
40°-50°	894.0	5.5
50°-60°	358.6	2.2
60°-70°	185.7	1.1
70°-80°	80.6	0.5
80°-90°	23.5	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°	16397.8	100.0
0°-180°	16397.8	100.0

Coefficient of Utilization



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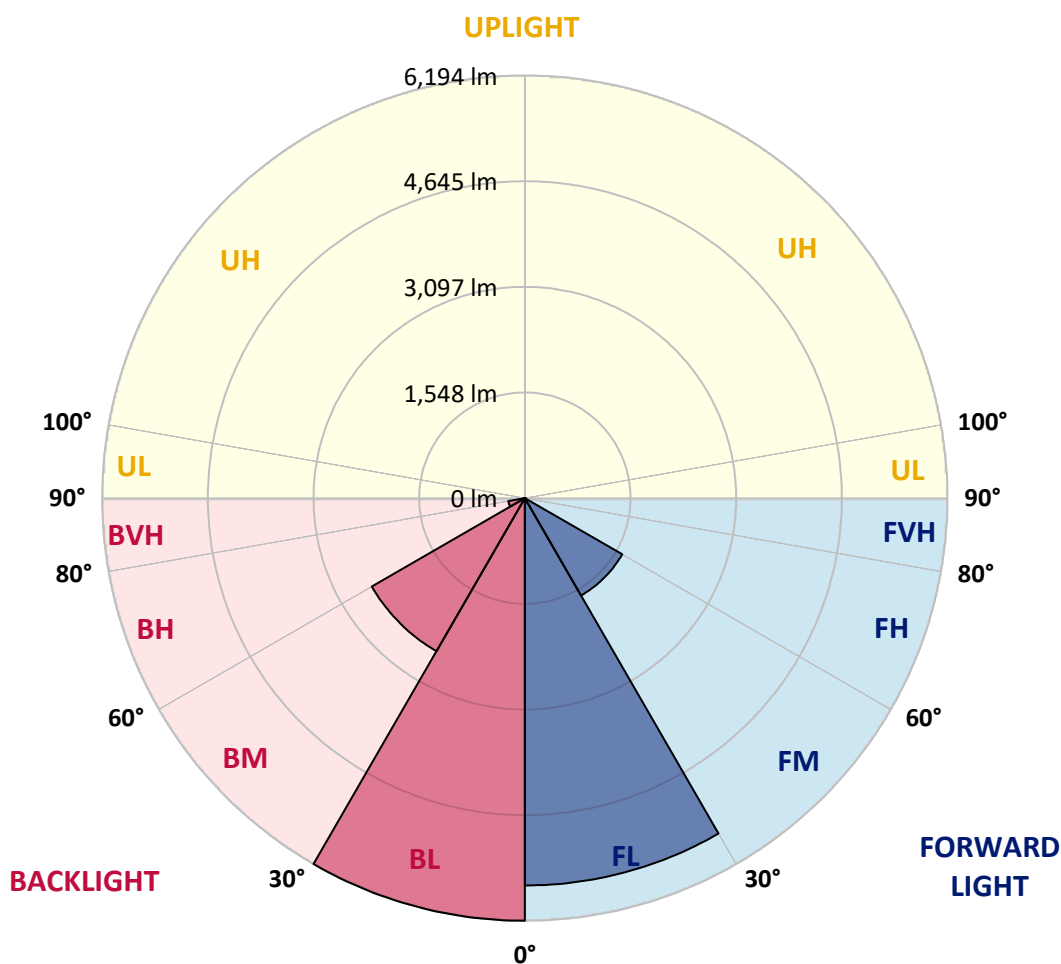
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5677.0	34.6			
FM	(30°-60°)	1647.3	10.0			
FH	(60°-80°)	20.4	0.1			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	6193.8	37.8	B5		
BM	(30°-60°)	2589.8	15.8	B3/5000		
BH	(60°-80°)	245.9	1.5	B1/500		G1/500
BVH	(80°-90°)	20.1	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°	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3
2.5°	26392.9	26439.8	26205.1	26285.6	26319.1	26329.2	26413.0	26399.6	26423.1	26299.0
5°	26044.1	25953.6	25779.2	25782.5	25772.5	25678.6	25869.7	25856.3	25816.1	25668.5
7.5°	24856.9	24987.7	24659.1	24652.4	24645.7	24531.6	24783.2	24628.9	24662.4	24451.1
10°	23119.8	23136.5	22844.8	22817.9	22841.4	22693.9	22985.6	22925.3	22989.0	22767.6
12.5°	20990.2	21084.1	20762.2	20715.2	20809.1	20601.2	20836.0	20866.1	20772.2	20742.1
15°	16462.9	16711.0	17321.4	18253.7	18495.1	18320.8	18508.6	18505.2	18545.4	18317.4
17.5°	12542.5	12566.0	12421.8	12867.8	15450.1	16288.5	16328.7	16010.1	15768.7	15684.8
20°	10949.5	11030.0	10899.2	10936.1	11348.6	13806.8	13900.7	13421.1	13008.6	12975.1
22.5°	9681.9	9732.2	9638.3	9668.4	9688.6	9977.0	11610.2	11187.6	10989.8	10838.9
25°	8608.7	8608.7	8558.4	8568.5	8548.3	8122.4	8960.8	9443.8	9329.7	9276.1
27.5°	7629.5	7642.9	7579.2	7616.0	7371.2	6683.7	6583.1	8008.4	7887.7	7790.4
30°	6700.5	6744.1	6683.7	6703.9	6170.6	5607.2	5318.8	6680.4	6831.3	6804.5
32.5°	5043.8	5241.7	5728.0	5748.1	5023.7	4591.1	4463.7	5362.4	5935.9	5885.6
35°	3125.6	3115.5	3135.6	4101.5	3853.3	3558.2	3605.1	4051.2	4698.4	4674.9
37.5°	2384.4	2381.1	2418.0	2320.7	2525.3	2699.7	2736.5	2736.5	3430.7	3434.1
40°	1807.6	1794.2	1790.8	1636.6	1371.6	2025.6	1965.2	1914.9	2384.4	2434.7
42.5°	1153.6	1193.9	1163.7	996.0	895.4	1106.7	1234.1	1193.9	1472.2	1509.1
45°	643.9	643.9	617.1	523.2	519.8	560.1	704.3	657.3	754.6	804.9
47.5°	311.9	305.2	335.4	412.5	429.3	415.8	503.0	523.2	570.1	617.1
50°	251.5	251.5	238.1	214.6	355.5	342.1	372.3	399.1	425.9	466.2
52.5°	211.3	211.3	194.5	181.1	204.6	261.6	264.9	315.2	311.9	368.9
55°	107.3	110.7	157.6	157.6	137.5	214.6	218.0	254.9	261.6	308.5
57.5°	10.1	13.4	20.1	97.3	107.3	117.4	164.3	187.8	218.0	238.1
60°	3.4	3.4	6.7	13.4	63.7	80.5	104.0	124.1	150.9	197.9
62.5°	0.0	0.0	3.4	6.7	13.4	50.3	57.0	63.7	90.5	124.1
65°	0.0	0.0	3.4	3.4	6.7	16.8	23.5	40.2	57.0	77.1
67.5°	0.0	0.0	3.4	3.4	6.7	10.1	13.4	20.1	26.8	50.3
70°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	13.4	16.8	23.5
72.5°	0.0	0.0	3.4	3.4	6.7	13.4	10.1	10.1	13.4	16.8
75°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	10.1	10.1	10.1
77.5°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	10.1	6.7	6.7
80°	0.0	0.0	3.4	3.4	6.7	10.1	13.4	13.4	6.7	6.7
82.5°	0.0	0.0	3.4	6.7	6.7	16.8	20.1	16.8	6.7	3.4
85°	0.0	0.0	3.4	3.4	10.1	16.8	16.8	10.1	6.7	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	10.1	3.4	3.4
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°
26359.3	0°	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3	26359.3
26198.4	2.5°	26185.0	26389.5	26483.4	26386.2	26339.2	26272.2	26174.9	26107.8	26121.2
25588.0	5°	25531.0	25745.6	25819.4	25735.6	25665.1	25628.3	25611.5	25645.0	25732.2
24360.6	7.5°	24353.9	24491.4	24571.9	24531.6	24434.4	24545.0	24575.2	24555.1	24682.5
22700.6	10°	22707.3	22858.2	22784.4	22801.2	22687.1	22744.2	22727.4	22801.2	22928.6
20718.6	12.5°	20584.4	20728.6	20671.6	20661.6	20540.8	20648.2	20581.1	20661.6	20829.2
18223.5	15°	18354.3	18444.8	18407.9	18350.9	18243.6	18280.5	18488.4	18475.0	18548.8
15634.5	17.5°	15567.4	16003.4	16241.5	16291.8	16204.6	16278.4	16426.0	16389.1	16556.8
12904.7	20°	12881.2	13320.5	13907.4	14383.6	14393.7	14403.7	14497.6	14521.1	14665.3
10842.2	22.5°	10795.3	11107.1	11737.6	12368.1	12804.1	12894.6	12884.6	12918.1	12958.3
9202.3	25°	9178.8	9406.9	9983.7	10419.7	11184.3	11439.2	11512.9	11439.2	11462.6
7756.9	27.5°	7844.1	8192.9	8384.0	8850.2	9598.0	10188.3	10164.8	10121.2	10127.9
6750.8	30°	6747.5	7123.1	7404.8	7545.6	8109.0	8960.8	9048.0	8923.9	8927.3
5862.1	32.5°	5825.2	5942.6	6358.4	6472.5	6834.6	7609.3	7907.8	7813.9	7797.1
4688.3	35°	4825.8	4889.6	5080.7	5305.4	5520.0	6106.9	6599.9	6512.7	6556.3
3447.5	37.5°	3434.1	3695.7	3880.1	4064.6	4218.8	4587.7	5181.3	5100.8	5144.4
2441.4	40°	2421.3	2538.7	2857.3	2937.8	3165.8	3336.8	3839.9	3813.1	3866.7
1515.8	42.5°	1489.0	1572.8	1733.8	1810.9	1965.2	2062.5	2357.6	2391.1	2461.5
838.4	45°	845.1	882.0	992.7	1076.5	1190.5	1230.8	1334.7	1381.7	1421.9
650.6	47.5°	643.9	684.1	757.9	831.7	925.6	959.1	1032.9	1103.3	1140.2
503.0	50°	526.5	563.4	640.5	700.9	794.8	825.0	885.4	962.5	1009.4
382.3	52.5°	399.1	452.7	546.6	610.4	707.6	744.5	801.5	878.6	922.2
315.2	55°	328.7	368.9	452.7	539.9	630.5	680.8	717.7	811.6	858.5
258.2	57.5°	281.7	311.9	365.5	469.5	546.6	620.4	650.6	737.8	784.7
204.6	60°	214.6	261.6	308.5	389.0	476.2	553.3	586.9	664.0	700.9
147.6	62.5°	177.7	207.9	268.3	311.9	409.1	489.6	523.2	593.6	620.4
97.3	65°	124.1	167.7	224.7	251.5	342.1	419.2	466.2	519.8	546.6
57.0	67.5°	73.8	124.1	177.7	214.6	278.3	355.5	405.8	456.1	479.6
33.5	70°	47.0	97.3	140.9	181.1	218.0	291.8	352.1	395.7	385.7
20.1	72.5°	26.8	60.4	104.0	147.6	181.1	244.8	301.8	335.4	238.1
13.4	75°	16.8	43.6	87.2	120.7	147.6	194.5	248.2	254.9	147.6
6.7	77.5°	13.4	33.5	67.1	97.3	100.6	144.2	174.4	197.9	110.7
6.7	80°	6.7	26.8	57.0	80.5	63.7	100.6	134.1	154.3	87.2
3.4	82.5°	6.7	16.8	43.6	57.0	47.0	77.1	97.3	110.7	73.8
3.4	85°	3.4	13.4	23.5	33.5	33.5	50.3	43.6	53.7	47.0
3.4	87.5°	3.4	6.7	13.4	16.8	13.4	20.1	23.5	23.5	20.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
26359.3
26302.3
25913.3
24810.0
22978.9
20859.4
18565.6
16529.9
14635.1
12884.6
11425.7
10138.0
8930.7
7837.4
6596.5
5181.3
3886.8
2542.0
1418.6
1157.0
1029.6
952.4
871.9
804.9
707.6
623.8
546.6
476.2
355.5
211.3
137.5
110.7
90.5
80.5
47.0
16.8
0.0

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