

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: P636590

Luminaire Tested: **IFLD-L-SA8C-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636590
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25538.7 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

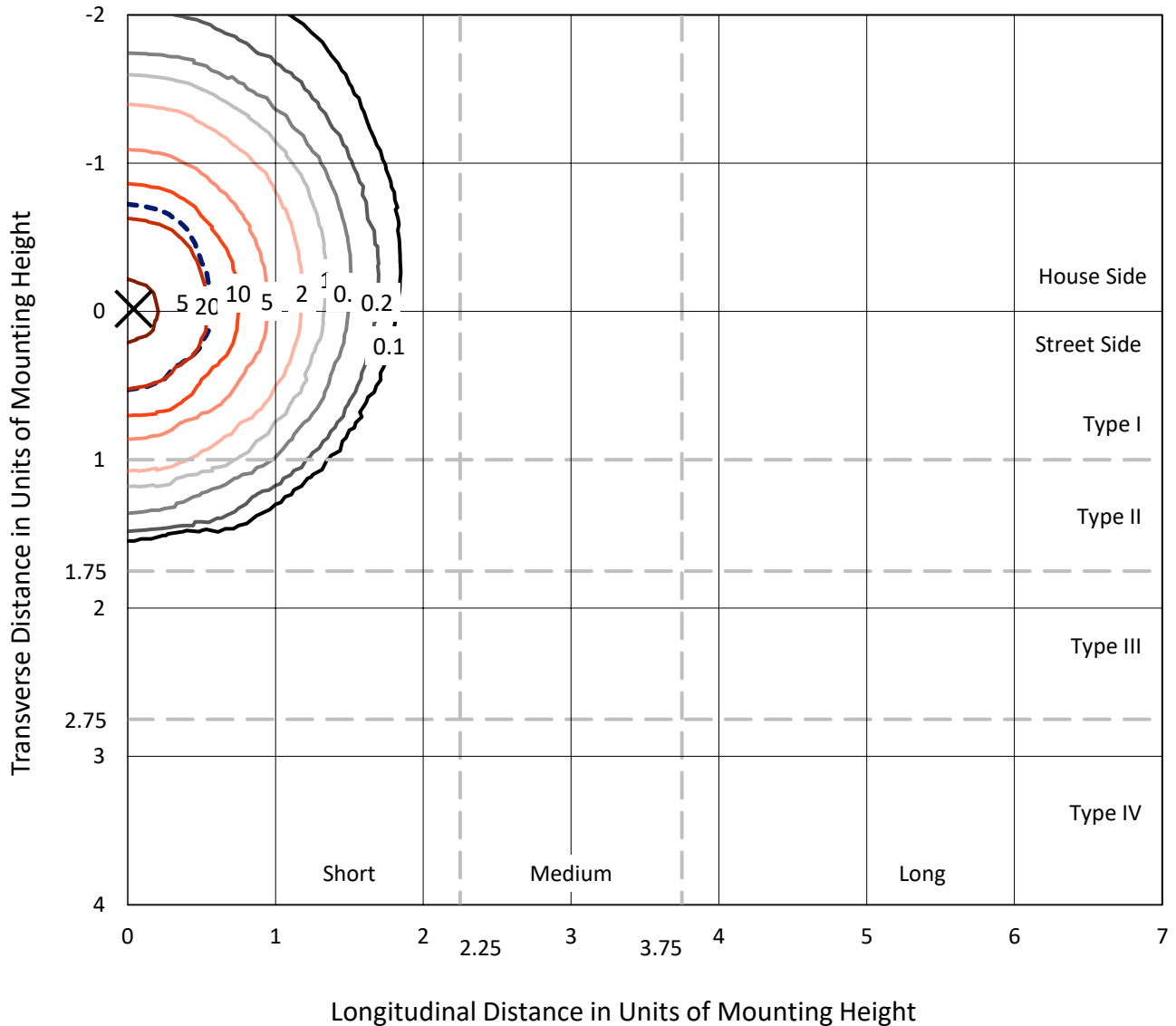
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

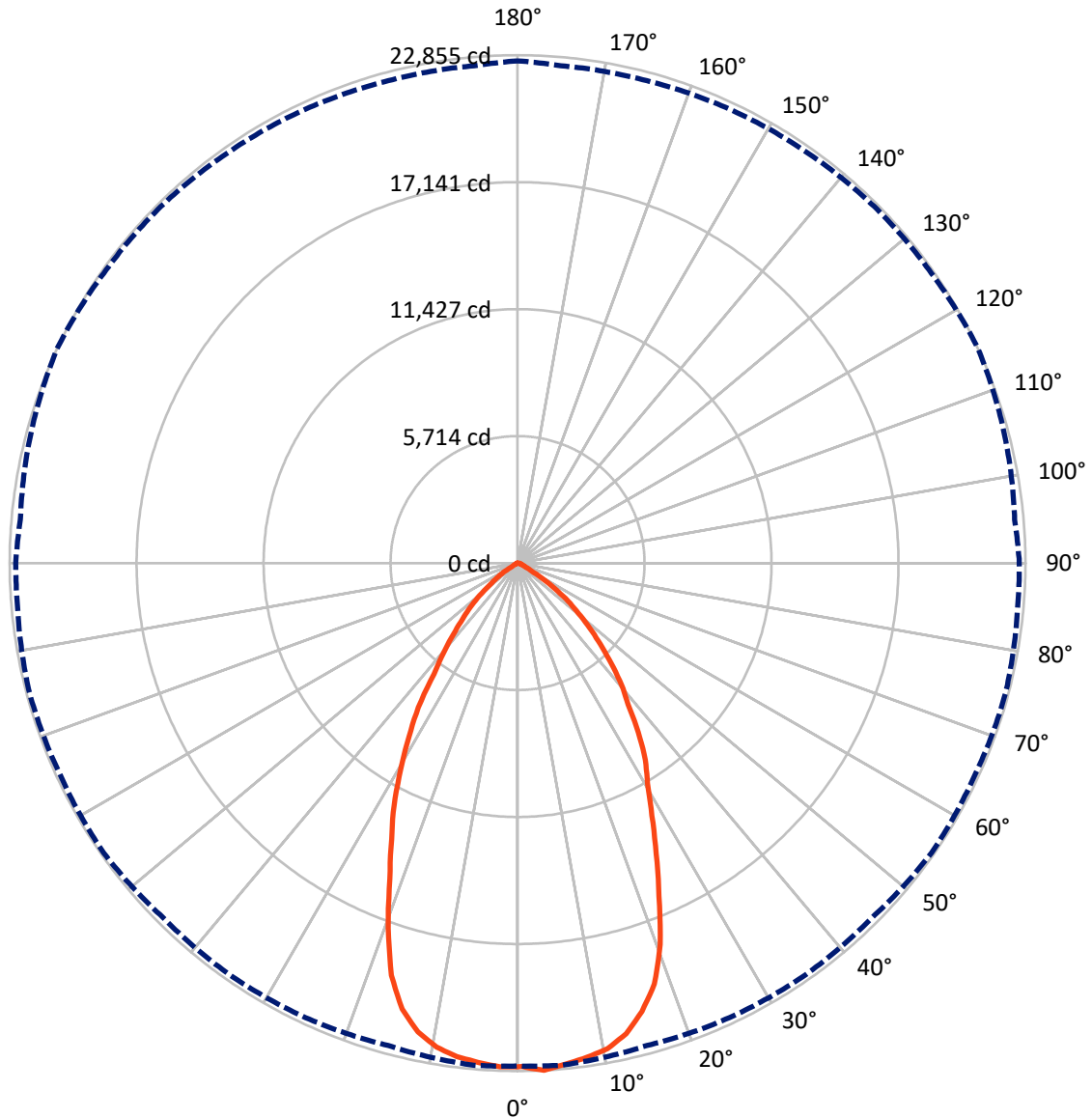
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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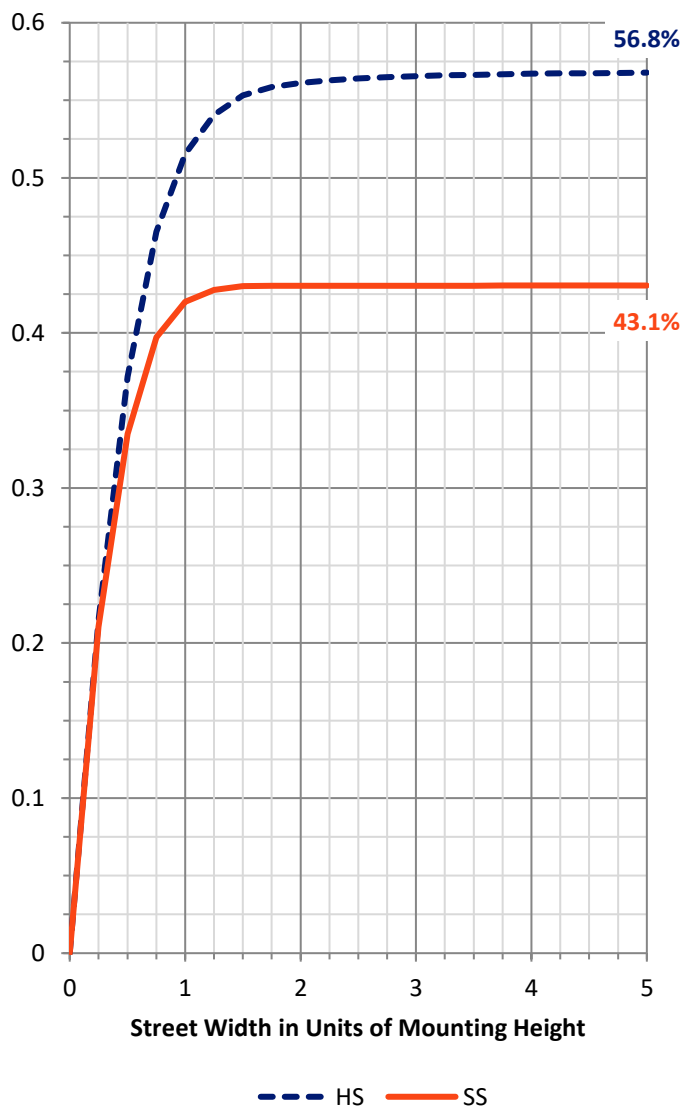
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14615.5	0.0	14615.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	10923.2	0.0	10923.2
	% Fixture	42.8	0.0	42.8
Total	Lumens	25538.7	0.0	25538.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2134.2	8.4
10°-20°	5658.8	22.2
20°-30°	6472.6	25.3
30°-40°	5546.8	21.7
40°-50°	3667.8	14.4
50°-60°	1600.4	6.3
60°-70°	314.5	1.2
70°-80°	113.5	0.4
80°-90°	30.2	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°	25538.7	100.0
0°-180°	25538.7	100.0



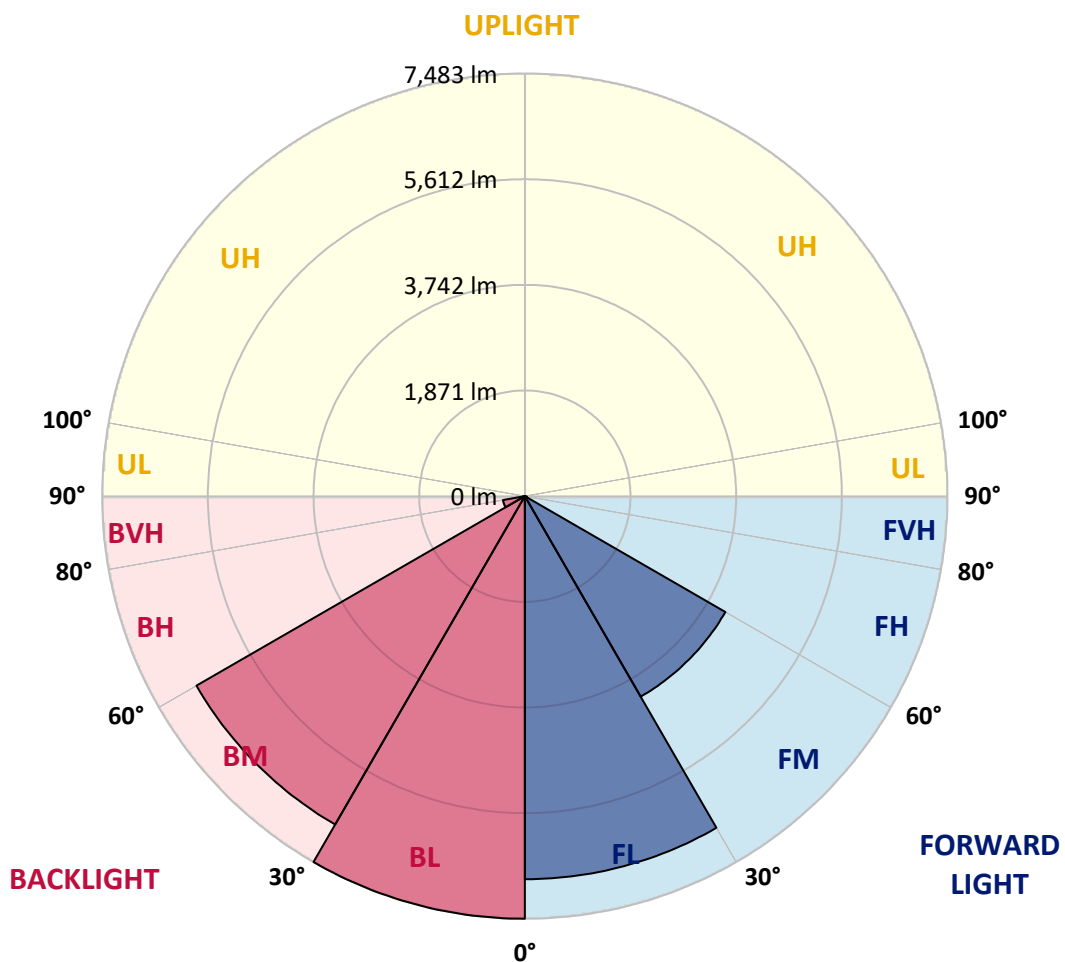
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6782.5	26.6			
FM (30°-60°)	4101.0	16.1			
FH (60°-80°)	34.7	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	7483.1	29.3	B5		
BM (30°-60°)	6714.0	26.3	B4/8500		
BH (60°-80°)	393.2	1.5	B1/500		G1/500
BVH (80°-90°)	25.2	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°	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3
2.5°	22626.7	22681.0	22474.7	22567.0	22605.0	22556.1	22735.3	22681.0	22724.4	22588.7
5°	22626.7	22681.0	22442.1	22485.6	22496.4	22404.1	22599.6	22534.4	22539.9	22398.7
7.5°	22485.6	22550.7	22333.6	22366.1	22371.6	22295.6	22463.9	22371.6	22339.0	22192.4
10°	22105.6	22143.6	21948.1	22029.6	22105.6	22035.0	22181.6	22078.4	22078.4	21948.1
12.5°	21503.0	21573.6	21356.4	21454.1	21519.3	21437.8	21606.1	21568.1	21573.6	21443.3
15°	20406.4	20162.1	20422.7	20618.1	20623.5	20607.2	20764.7	20726.7	20753.8	20558.4
17.5°	15075.4	15015.7	15319.7	17626.9	19342.4	19575.8	19602.9	19396.7	19304.4	19114.4
20°	13968.0	14011.4	13946.3	13957.1	15308.9	18115.5	17947.2	17436.9	17203.5	17013.5
22.5°	13159.1	13088.5	13045.1	13018.0	13056.0	14885.4	16096.0	15325.1	15200.3	15108.0
25°	12279.7	12247.1	12192.8	12181.9	12160.2	11850.8	13593.4	13664.0	13463.1	13349.1
27.5°	11459.9	11438.2	11378.5	11373.1	11123.4	10374.2	10564.2	12241.7	12187.4	12143.9
30°	10585.9	10542.5	10509.9	10509.9	9755.3	8984.5	8675.0	10672.8	10672.8	10634.8
32.5°	9635.9	9597.9	9608.8	9478.5	8577.3	7871.6	7383.0	9212.5	9782.5	9749.9
35°	5890.1	5879.3	6981.3	8430.7	7372.1	6731.6	6699.0	7882.4	8713.0	8799.9
37.5°	5244.1	5211.5	5227.8	5320.1	6313.5	6058.4	6047.5	6248.4	7415.6	7459.0
40°	4706.7	4684.9	4668.7	4337.5	4022.6	5407.0	5369.0	5238.7	6335.3	6411.3
42.5°	4196.4	4174.7	4174.7	3707.8	3197.5	4446.1	4462.4	4310.4	5341.8	5369.0
45°	3669.8	3653.5	3561.2	2958.6	2812.1	2953.2	3696.9	3523.2	4239.8	4522.1
47.5°	1731.7	1720.9	2491.8	2459.2	2448.3	2361.5	2822.9	2920.6	3365.8	3648.1
50°	1389.7	1378.9	1313.7	1156.3	2014.0	1791.5	2035.8	2247.5	2388.6	2649.2
52.5°	1150.9	1140.0	1004.3	890.3	1118.3	1308.3	1216.0	1503.7	1498.3	1780.6
55°	754.6	700.3	770.9	727.4	586.3	950.0	928.3	1140.0	1112.9	1357.2
57.5°	16.3	16.3	38.0	412.6	369.1	401.7	532.0	651.4	732.9	803.4
60°	5.4	5.4	10.9	21.7	152.0	168.3	206.3	238.9	336.6	418.0
62.5°	0.0	0.0	5.4	10.9	21.7	86.9	97.7	114.0	157.4	217.1
65°	0.0	0.0	0.0	5.4	10.9	21.7	32.6	70.6	97.7	124.9
67.5°	0.0	0.0	0.0	5.4	5.4	10.9	21.7	32.6	43.4	86.9
70°	0.0	0.0	0.0	5.4	5.4	10.9	16.3	21.7	32.6	43.4
72.5°	0.0	0.0	0.0	5.4	5.4	16.3	10.9	16.3	21.7	27.1
75°	0.0	0.0	0.0	5.4	5.4	5.4	10.9	16.3	16.3	21.7
77.5°	0.0	0.0	0.0	5.4	10.9	10.9	10.9	10.9	10.9	16.3
80°	0.0	0.0	0.0	5.4	5.4	10.9	16.3	21.7	10.9	10.9
82.5°	0.0	0.0	0.0	10.9	5.4	21.7	32.6	27.1	10.9	5.4
85°	0.0	0.0	0.0	5.4	21.7	27.1	27.1	16.3	5.4	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.9	16.3	16.3	5.4	5.4
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°
22659.3	0°	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3	22659.3
22577.9	2.5°	22453.0	22664.7	22854.7	22735.3	22691.9	22605.0	22539.9	22469.3	22463.9
22382.4	5°	22257.6	22458.4	22643.0	22501.9	22512.7	22469.3	22425.9	22409.6	22420.4
22181.6	7.5°	22089.3	22257.6	22458.4	22339.0	22371.6	22344.4	22322.7	22290.1	22339.0
21921.0	10°	21834.1	21986.1	22219.6	22105.6	22089.3	22062.1	22040.4	21980.7	22007.8
21448.7	12.5°	21275.0	21465.0	21731.0	21600.7	21644.1	21568.1	21535.6	21497.6	21503.0
20629.0	15°	20515.0	20661.5	20933.0	20829.8	20862.4	20813.5	20813.5	20813.5	20851.5
19141.5	17.5°	19190.4	19488.9	19917.8	19787.5	19836.4	19847.2	19836.4	19874.4	19923.2
17024.3	20°	17035.2	17545.5	18327.2	18582.4	18685.5	18690.9	18614.9	18707.2	18804.9
15042.9	22.5°	15053.7	15591.2	16280.6	16980.9	17415.2	17393.5	17404.3	17464.0	17567.2
13278.5	25°	13338.3	13854.0	14478.3	15102.6	16052.6	16248.0	16253.5	16307.7	16389.2
12073.4	27.5°	12100.5	12301.4	12871.4	13501.1	14521.7	15146.0	15113.4	15162.3	15249.1
10564.2	30°	10607.6	11378.5	11508.8	11894.2	12773.7	13919.1	13924.6	13978.8	14065.7
9673.9	32.5°	9646.8	10157.1	10558.8	10569.6	11318.8	12496.8	12730.2	12784.5	12844.2
8751.0	35°	8745.6	8805.3	9348.2	9500.2	9934.5	11101.6	11514.2	11546.8	11644.5
7442.7	37.5°	7567.6	7920.4	8072.4	8615.3	8637.0	9581.6	10401.3	10368.8	10444.8
6405.8	40°	6487.3	6823.8	7209.3	7605.6	7659.9	8365.6	9272.2	9304.7	9337.3
5314.7	42.5°	5358.1	5787.0	6183.3	6449.3	6818.4	7225.6	8088.7	8240.7	8316.7
4554.7	45°	4636.1	4755.5	5227.8	5618.7	5993.3	6183.3	6992.1	7269.0	7317.9
3604.6	47.5°	3653.5	4055.2	4375.5	4706.7	5173.5	5341.8	5928.1	6313.5	6351.5
2676.3	50°	2822.9	3110.6	3550.4	3848.9	4391.8	4484.1	4885.8	5385.2	5434.1
1791.5	52.5°	2019.5	2410.3	2839.2	3126.9	3648.1	3767.5	4066.1	4543.8	4576.4
1373.5	55°	1449.5	1704.6	2057.5	2470.0	2850.1	3116.1	3322.3	3778.4	3821.8
901.2	57.5°	988.0	1226.9	1373.5	1786.0	2014.0	2301.8	2470.0	2817.5	2850.1
428.9	60°	472.3	586.3	700.3	906.6	1053.2	1297.5	1406.0	1547.2	1585.2
260.6	62.5°	304.0	358.3	456.0	542.9	684.0	836.0	879.4	998.9	1042.3
162.9	65°	200.9	255.1	358.3	380.0	521.2	640.6	694.9	781.7	830.6
97.7	67.5°	114.0	179.1	266.0	314.9	412.6	526.6	586.3	662.3	705.7
65.1	70°	76.0	146.6	211.7	260.6	325.7	423.4	499.4	564.6	591.7
32.6	72.5°	43.4	92.3	146.6	206.3	260.6	352.9	423.4	477.7	314.9
21.7	75°	27.1	70.6	124.9	173.7	217.1	282.3	342.0	336.6	141.1
16.3	77.5°	21.7	54.3	108.6	146.6	179.1	195.4	244.3	276.9	108.6
10.9	80°	16.3	43.4	97.7	124.9	70.6	141.1	190.0	206.3	76.0
10.9	82.5°	10.9	27.1	81.4	86.9	48.9	103.1	152.0	135.7	54.3
5.4	85°	5.4	16.3	27.1	48.9	43.4	48.9	38.0	54.3	38.0
5.4	87.5°	5.4	10.9	21.7	21.7	21.7	16.3	21.7	21.7	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22659.3
22594.1
22556.1
22474.7
22138.1
21660.4
20867.8
20086.1
18870.1
17583.5
16530.3
15330.6
14217.7
12980.0
11747.7
10537.1
9440.5
8425.3
7437.3
6443.8
5504.7
4636.1
3859.8
2915.2
1628.6
1053.2
830.6
700.3
586.3
255.1
141.1
108.6
81.4
54.3
38.0
21.7
0.0

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