

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: P636591

Luminaire Tested: **IFLD-L-SA8D-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636591
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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: 28101.3 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

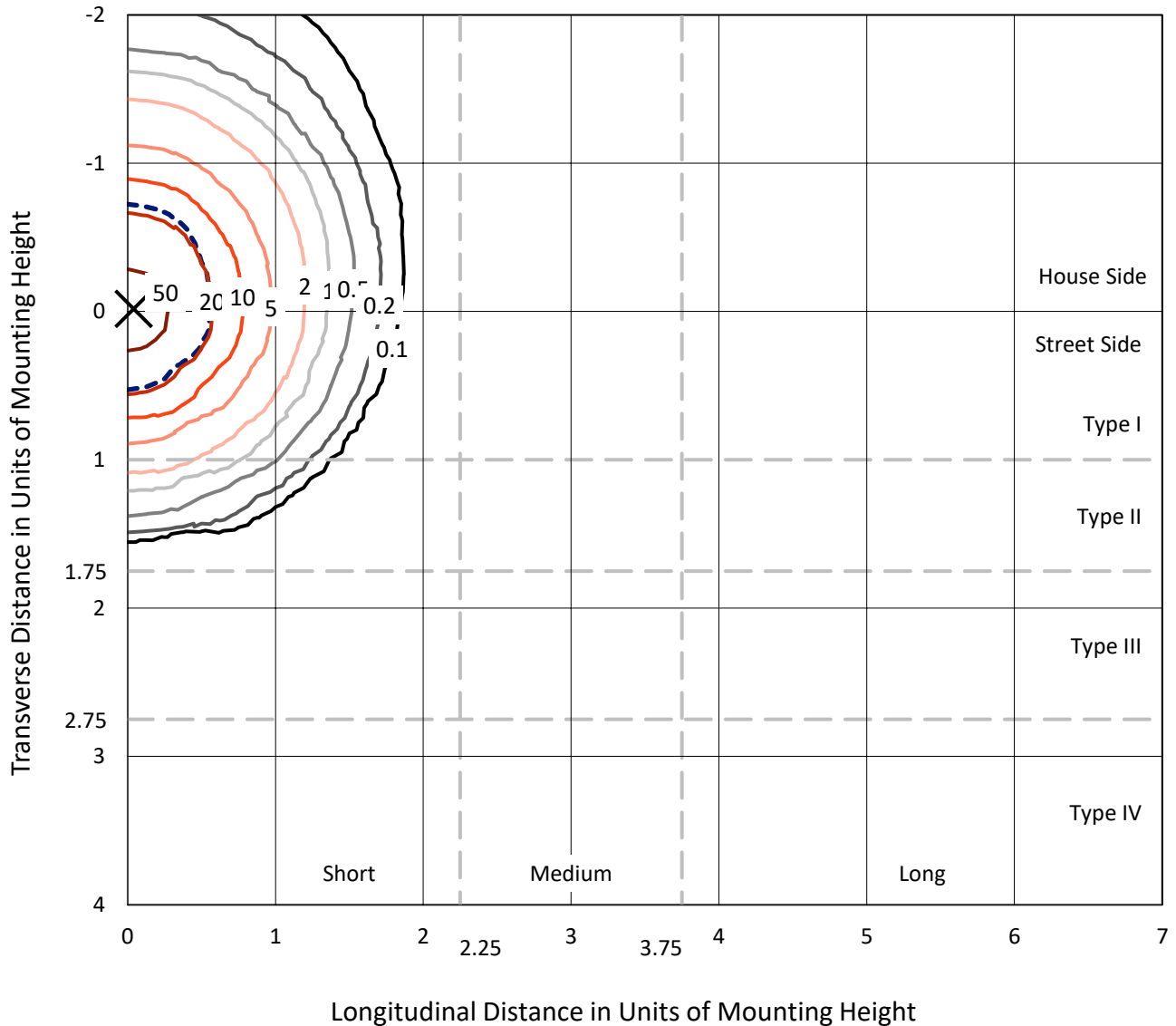
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

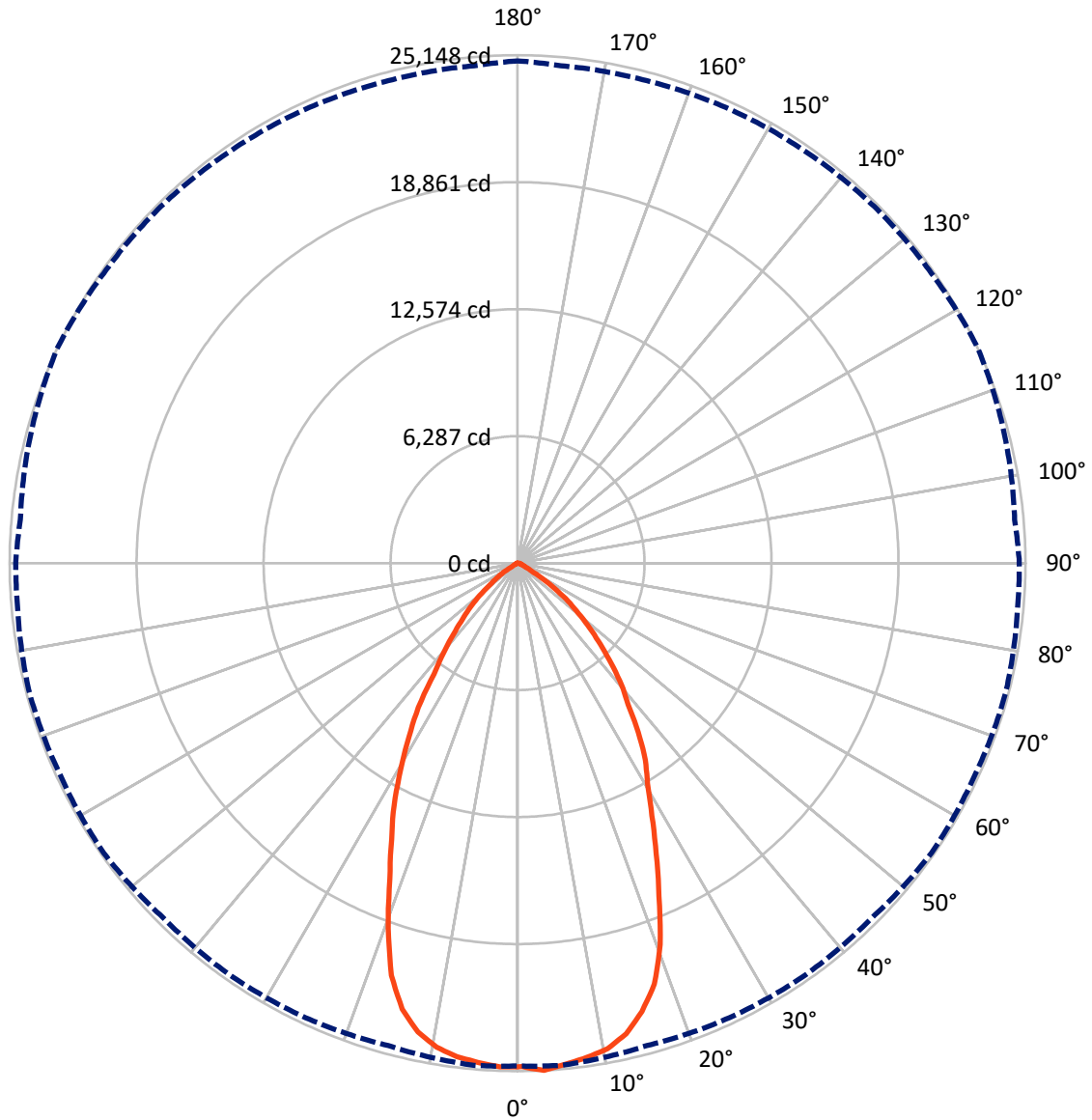
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.3 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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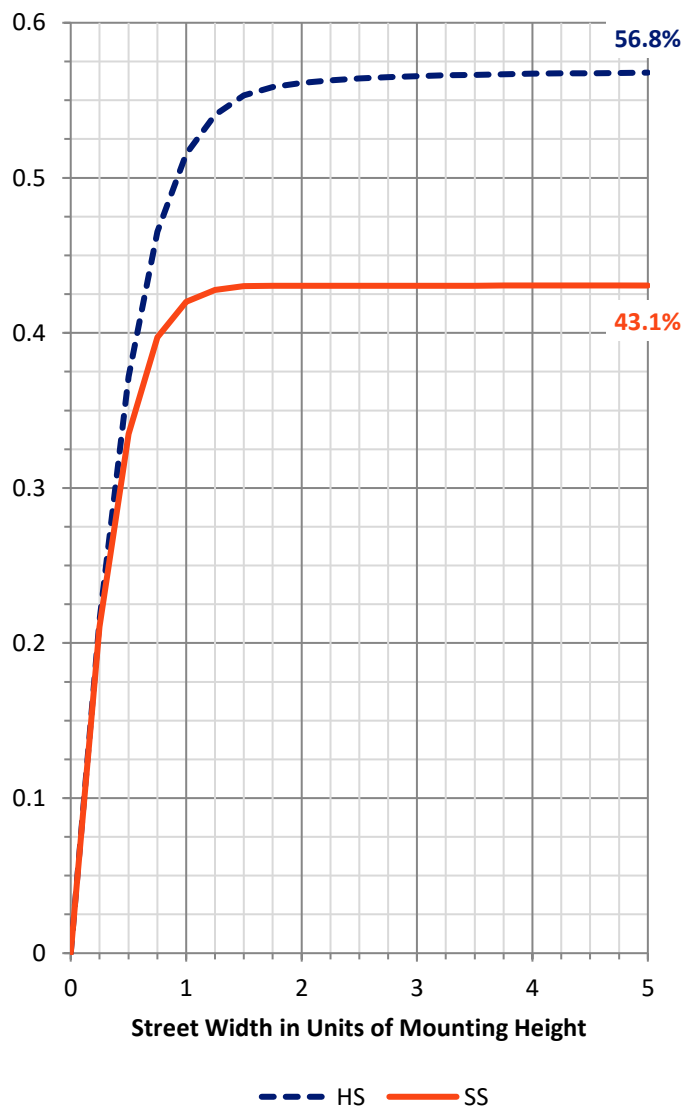
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16082.0	0.0	16082.0
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	12019.3	0.0	12019.3
	% Fixture	42.8	0.0	42.8
Total	Lumens	28101.3	0.0	28101.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2348.4	8.4
10°-20°	6226.7	22.2
20°-30°	7122.0	25.3
30°-40°	6103.4	21.7
40°-50°	4035.8	14.4
50°-60°	1761.0	6.3
60°-70°	346.0	1.2
70°-80°	124.8	0.4
80°-90°	33.2	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°	28101.3	100.0
0°-180°	28101.3	100.0



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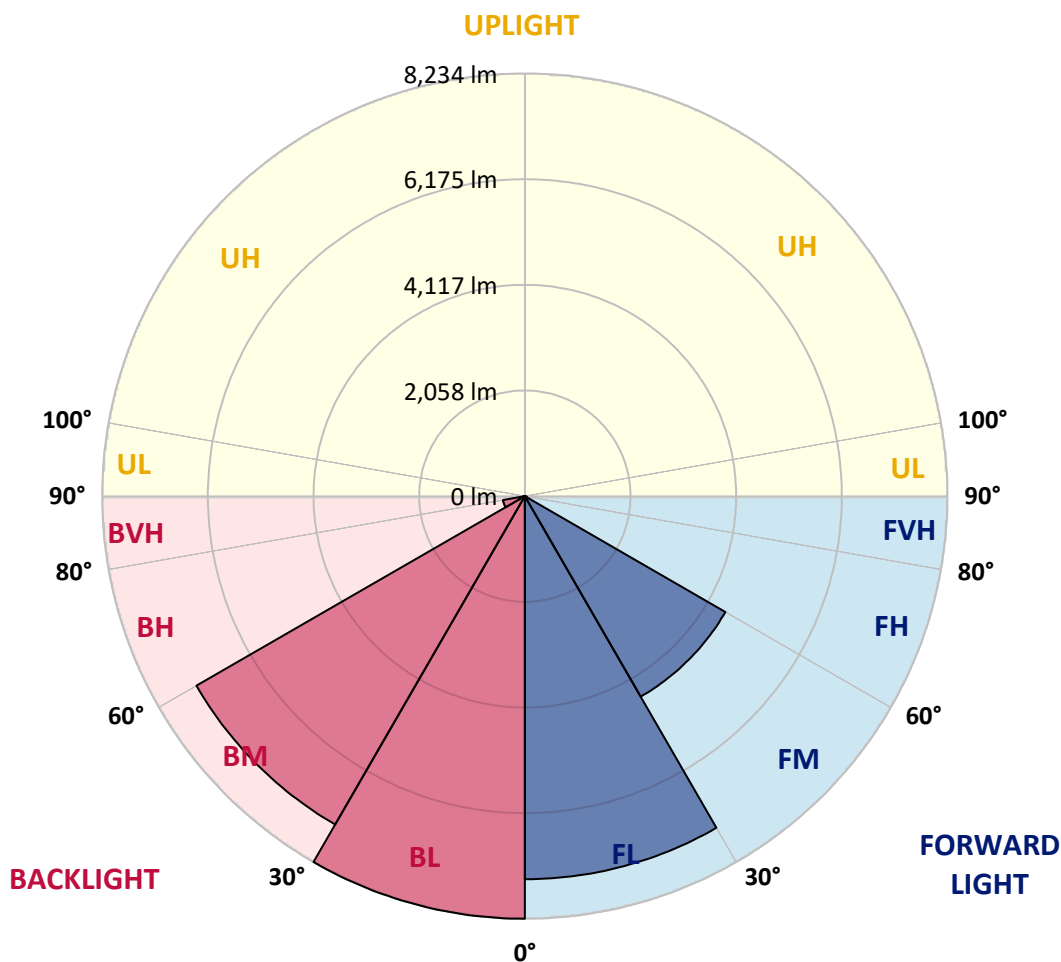
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7463.1	26.6			
FM (30°-60°)	4512.5	16.1			
FH (60°-80°)	38.2	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	8234.0	29.3	B5		
BM (30°-60°)	7387.7	26.3	B4/8500		
BH (60°-80°)	432.6	1.5	B1/500		G1/500
BVH (80°-90°)	27.7	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°	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9
2.5°	24897.1	24956.8	24729.8	24831.4	24873.2	24819.4	25016.6	24956.8	25004.6	24855.3
5°	24897.1	24956.8	24694.0	24741.8	24753.7	24652.2	24867.2	24795.6	24801.5	24646.2
7.5°	24741.8	24813.5	24574.5	24610.4	24616.4	24532.7	24717.9	24616.4	24580.5	24419.2
10°	24323.7	24365.5	24150.4	24240.0	24323.7	24246.0	24407.3	24293.8	24293.8	24150.4
12.5°	23660.6	23738.3	23499.3	23606.9	23678.5	23588.9	23774.1	23732.3	23738.3	23594.9
15°	22454.0	22185.2	22471.9	22686.9	22692.9	22675.0	22848.2	22806.4	22836.3	22621.2
17.5°	16588.1	16522.4	16856.9	19395.6	21283.2	21540.1	21569.9	21342.9	21241.4	21032.3
20°	15369.5	15417.3	15345.6	15357.6	16845.0	19933.2	19748.0	19186.5	18929.7	18720.6
22.5°	14479.5	14401.9	14354.1	14324.2	14366.0	16379.0	17711.1	16862.9	16725.5	16624.0
25°	13511.8	13476.0	13416.2	13404.3	13380.4	13039.9	14957.4	15035.0	14814.0	14688.6
27.5°	12609.8	12585.9	12520.2	12514.3	12239.5	11415.2	11624.2	13470.0	13410.3	13362.5
30°	11648.1	11600.3	11564.5	11564.5	10734.2	9886.0	9545.5	11743.7	11743.7	11701.9
32.5°	10602.8	10561.0	10572.9	10429.5	9438.0	8661.4	8123.8	10136.8	10764.1	10728.2
35°	6481.1	6469.2	7681.8	9276.7	8111.9	7407.0	7371.2	8673.4	9587.3	9682.9
37.5°	5770.3	5734.5	5752.4	5853.9	6947.1	6666.3	6654.4	6875.4	8159.7	8207.4
40°	5178.9	5155.0	5137.1	4772.7	4426.3	5949.5	5907.7	5764.3	6971.0	7054.6
42.5°	4617.4	4593.5	4593.5	4079.8	3518.3	4892.2	4910.1	4742.9	5877.8	5907.7
45°	4038.0	4020.1	3918.5	3255.5	3094.2	3249.5	4067.9	3876.7	4665.2	4975.8
47.5°	1905.5	1893.6	2741.8	2705.9	2694.0	2598.4	3106.2	3213.7	3703.5	4014.1
50°	1529.2	1517.2	1445.6	1272.3	2216.1	1971.2	2240.0	2473.0	2628.3	2915.0
52.5°	1266.4	1254.4	1105.1	979.6	1230.5	1439.6	1338.0	1654.6	1648.7	1959.3
55°	830.3	770.6	848.2	800.4	645.1	1045.3	1021.5	1254.4	1224.5	1493.3
57.5°	17.9	17.9	41.8	454.0	406.2	442.0	585.4	716.8	806.4	884.1
60°	6.0	6.0	11.9	23.9	167.3	185.2	227.0	262.8	370.4	460.0
62.5°	0.0	0.0	6.0	11.9	23.9	95.6	107.5	125.4	173.2	238.9
65°	0.0	0.0	0.0	6.0	11.9	23.9	35.8	77.7	107.5	137.4
67.5°	0.0	0.0	0.0	6.0	6.0	11.9	23.9	35.8	47.8	95.6
70°	0.0	0.0	0.0	6.0	6.0	11.9	17.9	23.9	35.8	47.8
72.5°	0.0	0.0	0.0	6.0	6.0	17.9	11.9	17.9	23.9	29.9
75°	0.0	0.0	0.0	6.0	6.0	6.0	11.9	17.9	17.9	23.9
77.5°	0.0	0.0	0.0	6.0	11.9	11.9	11.9	11.9	11.9	17.9
80°	0.0	0.0	0.0	6.0	6.0	11.9	17.9	23.9	11.9	11.9
82.5°	0.0	0.0	0.0	11.9	6.0	23.9	35.8	29.9	11.9	6.0
85°	0.0	0.0	0.0	6.0	23.9	29.9	29.9	17.9	6.0	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	11.9	17.9	17.9	6.0	6.0
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°
24932.9	0°	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9	24932.9
24843.3	2.5°	24706.0	24938.9	25148.0	25016.6	24968.8	24873.2	24801.5	24723.9	24717.9
24628.3	5°	24490.9	24711.9	24915.0	24759.7	24771.7	24723.9	24676.1	24658.2	24670.1
24407.3	7.5°	24305.7	24490.9	24711.9	24580.5	24616.4	24586.5	24562.6	24526.8	24580.5
24120.6	10°	24025.0	24192.2	24449.1	24323.7	24305.7	24275.9	24252.0	24186.3	24216.1
23600.9	12.5°	23409.7	23618.8	23911.5	23768.1	23815.9	23732.3	23696.5	23654.6	23660.6
22698.9	15°	22573.5	22734.7	23033.4	22919.9	22955.8	22902.0	22902.0	22902.0	22943.8
21062.2	17.5°	21115.9	21444.5	21916.4	21773.0	21826.8	21838.7	21826.8	21868.6	21922.4
18732.6	20°	18744.5	19306.0	20166.2	20446.9	20560.4	20566.4	20482.8	20584.3	20691.8
16552.3	22.5°	16564.2	17155.6	17914.2	18684.8	19162.6	19138.8	19150.7	19216.4	19329.9
14610.9	25°	14676.6	15244.1	15931.0	16618.0	17663.3	17878.4	17884.3	17944.1	18033.7
13284.8	27.5°	13314.7	13535.7	14162.9	14855.8	15978.8	16665.8	16629.9	16683.7	16779.3
11624.2	30°	11672.0	12520.2	12663.6	13087.7	14055.4	15315.8	15321.8	15381.5	15477.1
10644.6	32.5°	10614.7	11176.2	11618.3	11630.2	12454.5	13750.8	14007.6	14067.3	14133.0
9629.1	35°	9623.1	9688.8	10286.2	10453.4	10931.3	12215.6	12669.6	12705.4	12812.9
8189.5	37.5°	8326.9	8715.2	8882.4	9479.8	9503.7	10543.0	11445.0	11409.2	11492.8
7048.6	40°	7138.2	7508.6	7932.7	8368.7	8428.5	9205.0	10202.6	10238.4	10274.2
5848.0	42.5°	5895.7	6367.6	6803.7	7096.4	7502.6	7950.6	8900.4	9067.6	9151.2
5011.7	45°	5101.3	5232.7	5752.4	6182.5	6594.6	6803.7	7693.7	7998.4	8052.1
3966.3	47.5°	4020.1	4462.1	4814.6	5178.9	5692.6	5877.8	6522.9	6947.1	6988.9
2944.9	50°	3106.2	3422.8	3906.6	4235.1	4832.5	4934.0	5376.1	5925.6	5979.4
1971.2	52.5°	2222.1	2652.2	3124.1	3440.7	4014.1	4145.5	4474.1	4999.7	5035.6
1511.3	55°	1594.9	1875.6	2263.9	2717.9	3136.0	3428.7	3655.7	4157.5	4205.3
991.6	57.5°	1087.2	1350.0	1511.3	1965.2	2216.1	2532.7	2717.9	3100.2	3136.0
471.9	60°	519.7	645.1	770.6	997.6	1158.8	1427.6	1547.1	1702.4	1744.2
286.7	62.5°	334.5	394.2	501.8	597.3	752.6	919.9	967.7	1099.1	1146.9
179.2	65°	221.0	280.7	394.2	418.1	573.4	704.9	764.6	860.2	913.9
107.5	67.5°	125.4	197.1	292.7	346.5	454.0	579.4	645.1	728.8	776.5
71.7	70°	83.6	161.3	233.0	286.7	358.4	465.9	549.6	621.2	651.1
35.8	72.5°	47.8	101.5	161.3	227.0	286.7	388.3	465.9	525.7	346.5
23.9	75°	29.9	77.7	137.4	191.1	238.9	310.6	376.3	370.4	155.3
17.9	77.5°	23.9	59.7	119.5	161.3	197.1	215.0	268.8	304.6	119.5
11.9	80°	17.9	47.8	107.5	137.4	77.7	155.3	209.1	227.0	83.6
11.9	82.5°	11.9	29.9	89.6	95.6	53.8	113.5	167.3	149.3	59.7
6.0	85°	6.0	17.9	29.9	53.8	47.8	53.8	41.8	59.7	41.8
6.0	87.5°	6.0	11.9	23.9	23.9	23.9	17.9	23.9	23.9	23.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24932.9
24861.3
24819.4
24729.8
24359.5
23833.8
22961.7
22101.6
20763.5
19347.8
18189.0
16868.9
15644.3
14282.4
12926.4
11594.4
10387.7
9270.7
8183.5
7090.4
6057.0
5101.3
4247.1
3207.7
1792.0
1158.8
913.9
770.6
645.1
280.7
155.3
119.5
89.6
59.7
41.8
23.9
0.0

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