

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: P637917

Luminaire Tested: **IFLD-L-SA7A-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637917
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26393 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

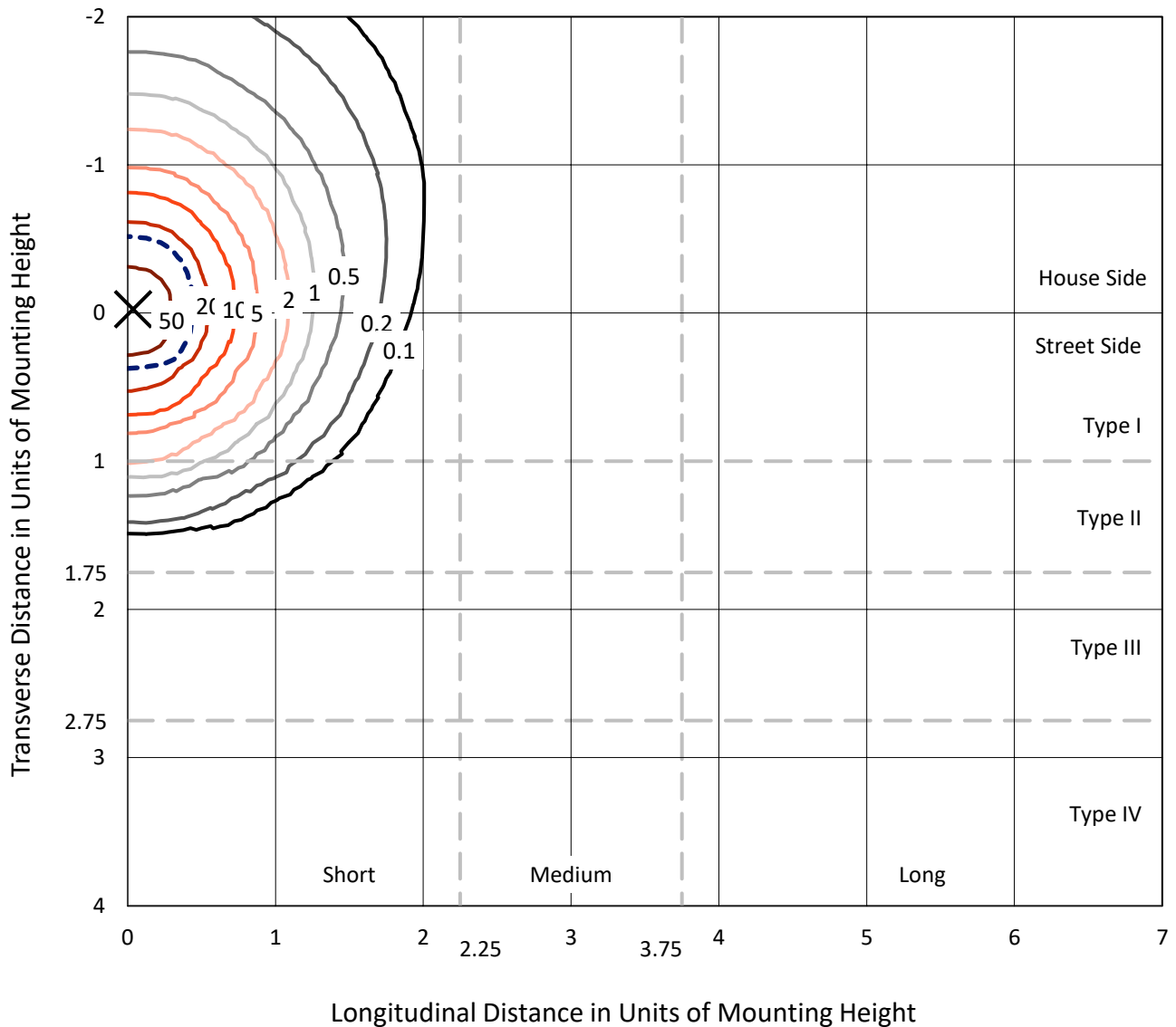
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

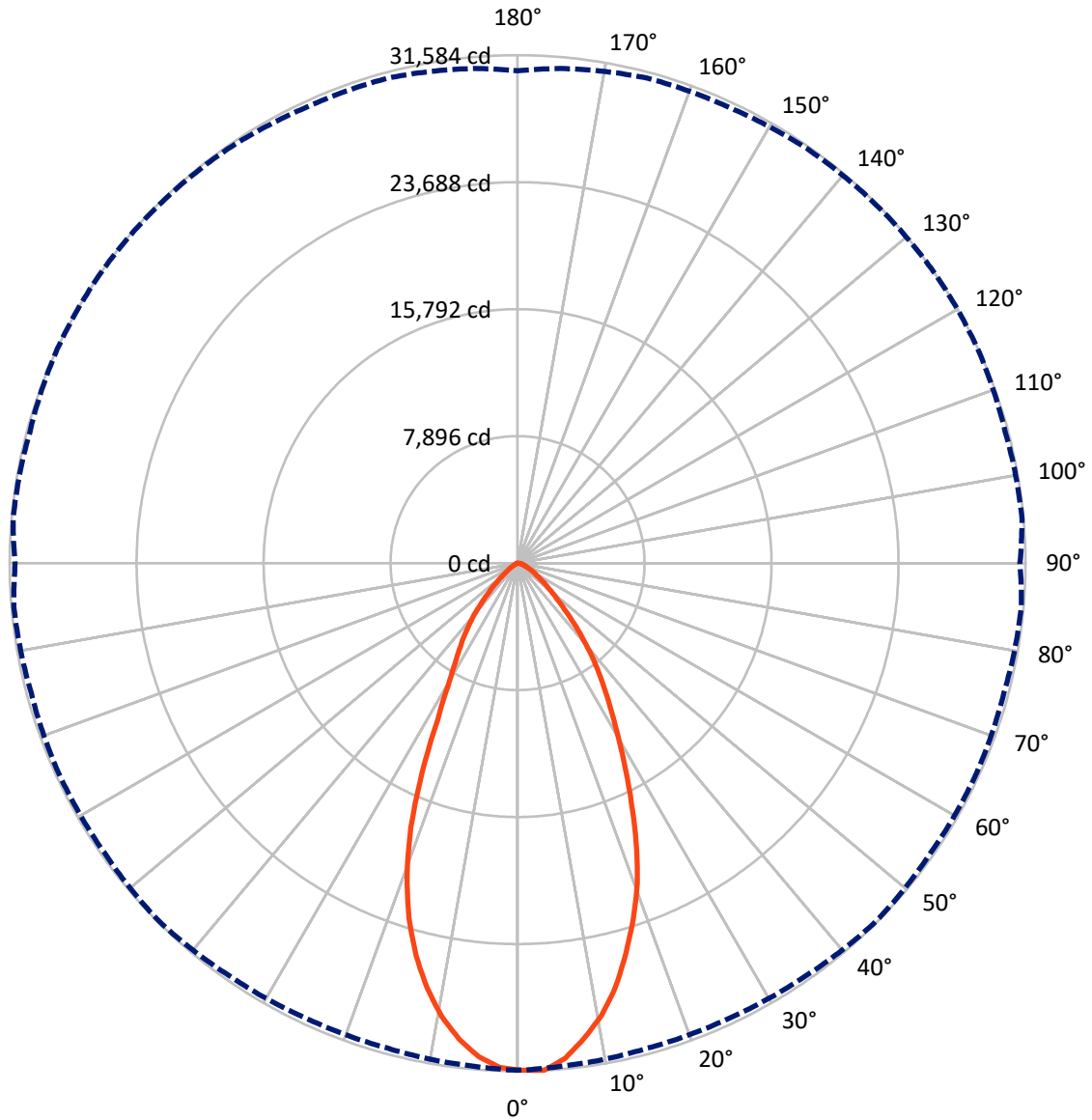
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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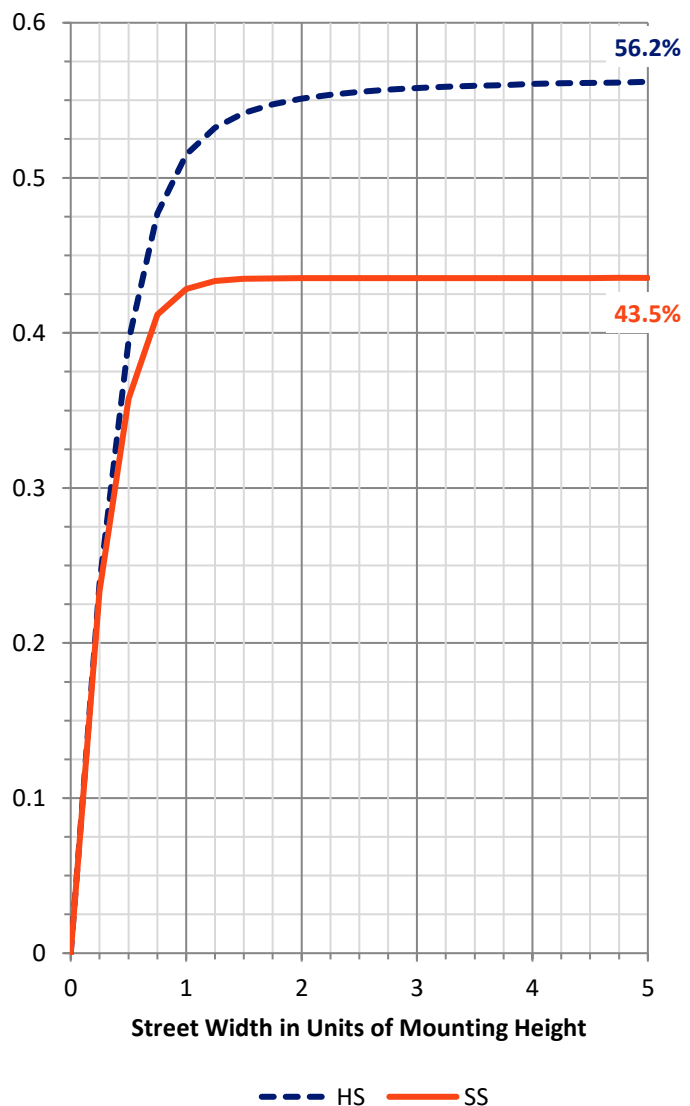
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14976.4	0.0	14976.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11416.6	0.0	11416.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	26393.0	0.0	26393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2863.3	10.8
10°-20°	6825.6	25.9
20°-30°	6951.7	26.3
30°-40°	5183.9	19.6
40°-50°	2708.2	10.3
50°-60°	1139.1	4.3
60°-70°	465.2	1.8
70°-80°	195.8	0.7
80°-90°	60.3	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°	26393.0	100.0
0°-180°	26393.0	100.0



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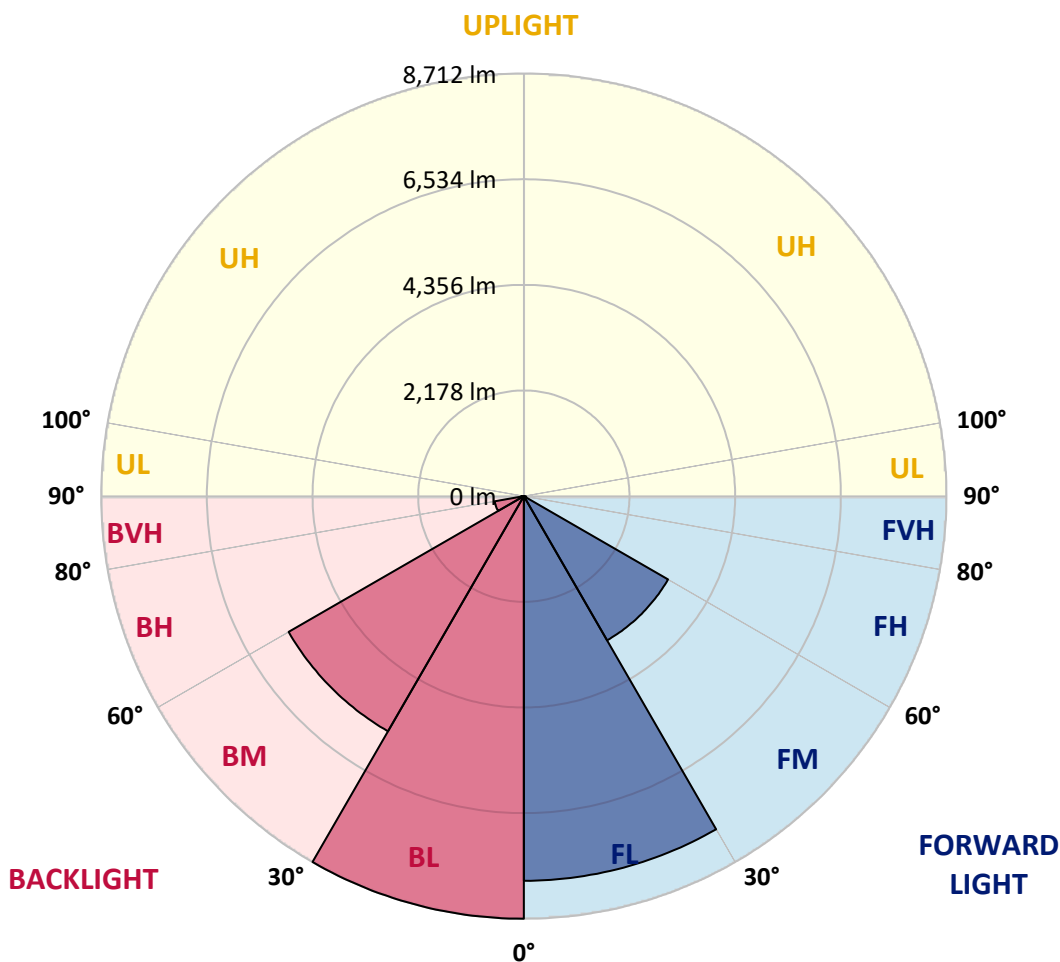
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7928.8	30.0			
FM (30°-60°)	3432.5	13.0			
FH (60°-80°)	49.7	0.2			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	8711.8	33.0	B5		
BM (30°-60°)	5598.6	21.2	B4/8500		
BH (60°-80°)	611.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	54.7	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°	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2
2.5°	31536.6	31407.8	31224.7	31207.8	31302.7	31509.5	31377.3	31384.1	31302.7	31441.7
5°	31041.6	30919.6	30794.1	30628.0	30767.0	30855.2	30787.4	30712.8	30607.7	30743.3
7.5°	30105.9	30038.1	29851.6	29777.0	29861.8	29960.1	29814.3	29794.0	29648.2	29824.5
10°	28675.2	28648.1	28465.0	28420.9	28495.5	28644.7	28580.3	28566.7	28475.2	28458.2
12.5°	27190.2	27085.1	26858.0	26844.4	26956.3	27180.1	27007.2	26841.0	26891.9	26936.0
15°	23366.0	23254.1	23816.9	24701.8	25166.2	25149.3	25200.1	25000.1	24939.1	24959.4
17.5°	18575.5	18385.6	18589.0	19958.7	22165.8	23447.3	23094.8	22664.2	22433.6	22281.1
20°	16032.8	16042.9	16005.6	16358.2	17734.7	20657.1	20572.4	19741.7	19440.0	19314.6
22.5°	14486.8	14429.1	14347.8	14459.7	14829.2	16544.7	17694.0	16931.2	16826.1	16687.1
25°	12971.3	12971.3	12873.0	12984.9	13090.0	13113.7	14266.4	14578.3	14374.9	14374.9
27.5°	11659.3	11591.5	11547.4	11598.2	11459.2	10791.3	10937.1	12534.0	12395.0	12310.2
30°	10357.4	10337.0	10262.5	10330.3	9814.9	9062.3	8757.2	10577.8	10723.5	10693.0
32.5°	8550.3	8631.7	8964.0	9069.1	8187.6	7580.7	7289.2	8780.9	9364.0	9340.3
35°	5811.0	5878.8	6258.5	7512.9	6787.4	6353.4	6268.7	6984.0	7943.5	8035.0
37.5°	4627.8	4617.6	4726.1	4949.8	5455.0	5349.9	5326.2	5512.6	6478.9	6519.6
40°	3814.1	3800.5	3797.1	3614.1	3488.6	4448.1	4383.7	4271.8	5109.2	5190.6
42.5°	3075.0	3088.6	3098.7	2698.7	2515.6	3431.0	3393.7	3278.4	4007.3	4102.3
45°	2413.9	2410.5	2430.8	2010.5	1959.6	2193.5	2535.9	2444.4	3024.2	3125.9
47.5°	1251.0	1295.1	1569.7	1556.2	1579.9	1556.2	1918.9	1895.2	2274.9	2437.6
50°	840.8	854.4	878.1	881.5	1244.2	1145.9	1301.9	1474.8	1593.4	1844.3
52.5°	650.9	661.1	600.1	562.8	762.8	847.6	854.4	1020.5	1112.0	1366.3
55°	362.8	406.8	437.3	440.7	420.4	627.2	623.8	756.0	827.2	996.7
57.5°	47.5	57.6	88.1	284.8	281.4	349.2	437.3	549.2	589.9	728.9
60°	3.4	6.8	10.2	44.1	186.5	203.4	298.3	342.4	410.2	511.9
62.5°	0.0	0.0	3.4	10.2	37.3	118.7	156.0	179.7	240.7	335.6
65°	0.0	0.0	3.4	6.8	13.6	44.1	61.0	98.3	142.4	206.8
67.5°	0.0	0.0	3.4	6.8	10.2	17.0	27.1	44.1	74.6	125.4
70°	0.0	0.0	3.4	6.8	10.2	13.6	20.3	27.1	40.7	67.8
72.5°	0.0	0.0	3.4	3.4	6.8	17.0	17.0	20.3	27.1	37.3
75°	0.0	0.0	3.4	6.8	10.2	17.0	17.0	17.0	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	10.2	17.0	13.6	17.0	17.0	17.0
80°	0.0	0.0	3.4	6.8	10.2	17.0	20.3	17.0	13.6	13.6
82.5°	0.0	0.0	3.4	10.2	10.2	23.7	23.7	23.7	10.2	10.2
85°	0.0	0.0	6.8	10.2	17.0	27.1	27.1	20.3	10.2	6.8
87.5°	0.0	0.0	3.4	6.8	6.8	13.6	20.3	17.0	6.8	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°
31533.2	0°	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2	31533.2
31238.3	2.5°	31489.2	31404.4	31563.7	31584.1	31516.3	31431.5	31234.9	31217.9	30875.5
30546.6	5°	30892.5	30753.5	30855.2	30923.0	30899.2	30807.7	30726.3	30651.7	30343.2
29424.5	7.5°	29780.4	29729.6	29777.0	29827.9	29926.2	29827.9	29794.0	29716.0	29410.9
28319.2	10°	28546.4	28451.4	28631.1	28607.4	28580.3	28553.1	28410.8	28424.3	28064.9
26813.9	12.5°	27030.9	26871.6	27044.5	27064.8	27044.5	26949.5	26790.2	26858.0	26529.1
24779.7	15°	24993.3	24976.4	25101.8	25183.2	25240.8	25139.1	25084.9	25118.8	24922.1
22162.4	17.5°	22491.3	22711.7	23121.9	23260.9	23264.3	23369.4	23338.9	23298.2	23152.4
19263.7	20°	19548.5	19972.3	20602.9	21250.4	21436.9	21348.8	21308.1	21382.7	21165.7
16541.3	22.5°	16832.9	17195.6	17927.9	18873.8	19419.7	19473.9	19463.7	19399.3	19314.6
14361.3	25°	14527.5	14849.5	15551.3	16415.9	17463.5	17619.4	17626.2	17605.9	17531.3
12384.8	27.5°	12581.4	12971.3	13357.8	14130.8	15246.2	15890.4	15809.0	15785.3	15758.1
10716.8	30°	10818.5	11310.1	11672.8	12154.2	13154.4	14025.7	14110.4	14069.8	14005.4
9336.9	32.5°	9421.7	9713.2	10174.3	10499.8	11218.5	12205.1	12530.6	12500.1	12442.4
8092.7	35°	8207.9	8323.2	8686.0	9048.7	9526.8	10482.8	10964.2	10896.4	10886.3
6594.1	37.5°	6760.3	7146.8	7346.8	7712.9	8048.6	8791.1	9455.6	9425.0	9428.4
5302.4	40°	5458.4	5682.2	6078.8	6387.3	6695.9	7238.3	7977.4	7997.7	7990.9
4105.7	42.5°	4190.4	4407.4	4824.4	5160.0	5434.7	5770.3	6475.5	6499.2	6529.7
3197.1	45°	3271.6	3410.6	3715.8	4065.0	4356.5	4560.0	5095.6	5248.2	5251.6
2478.3	47.5°	2539.3	2698.7	2915.7	3251.3	3536.1	3681.9	4071.8	4278.6	4268.4
1902.0	50°	1993.5	2139.3	2315.6	2580.0	2888.5	3003.8	3292.0	3495.4	3485.2
1434.1	52.5°	1525.6	1712.1	1868.1	2071.5	2373.2	2471.5	2678.3	2912.3	2878.4
1051.0	55°	1156.1	1346.0	1491.7	1661.2	1935.9	2061.3	2203.7	2390.2	2396.9
813.7	57.5°	871.3	1067.9	1200.2	1373.1	1579.9	1718.9	1827.4	2027.4	2024.0
556.0	60°	623.8	793.3	952.7	1132.4	1291.7	1451.1	1525.6	1715.5	1722.3
393.3	62.5°	450.9	610.3	762.8	918.8	1061.2	1217.1	1284.9	1434.1	1454.4
257.7	65°	315.3	427.2	603.5	722.1	881.5	996.7	1084.9	1213.7	1237.5
152.6	67.5°	203.4	308.5	478.0	583.1	728.9	827.2	918.8	1020.5	1051.0
98.3	70°	122.1	233.9	356.0	467.9	600.1	688.2	776.4	864.5	881.5
47.5	72.5°	78.0	162.7	257.7	379.7	481.4	576.4	654.3	718.7	667.9
30.5	75°	44.1	111.9	203.4	298.3	389.9	481.4	545.8	579.7	464.5
20.3	77.5°	27.1	81.4	166.1	240.7	301.7	386.5	427.2	447.5	332.2
13.6	80°	17.0	61.0	139.0	196.6	196.6	284.8	332.2	349.2	240.7
10.2	82.5°	13.6	44.1	108.5	149.2	132.2	213.6	261.1	264.4	169.5
6.8	85°	10.2	33.9	67.8	98.3	91.5	149.2	152.6	169.5	111.9
6.8	87.5°	6.8	20.3	40.7	57.6	50.9	71.2	81.4	91.5	61.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
31533.2
30607.7
30095.7
29346.5
27942.9
26434.2
24684.8
22935.4
21009.7
19151.8
17280.4
15598.8
13924.0
12289.9
10774.4
9319.9
7872.3
6428.0
5163.4
4231.1
3485.2
2881.8
2396.9
2017.2
1705.3
1447.7
1230.7
1047.6
867.9
620.4
440.7
311.9
223.8
156.0
101.7
54.2
0.0

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