

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: P636662

Luminaire Tested: **IFLD-S-SA6C-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636662
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23906.5 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

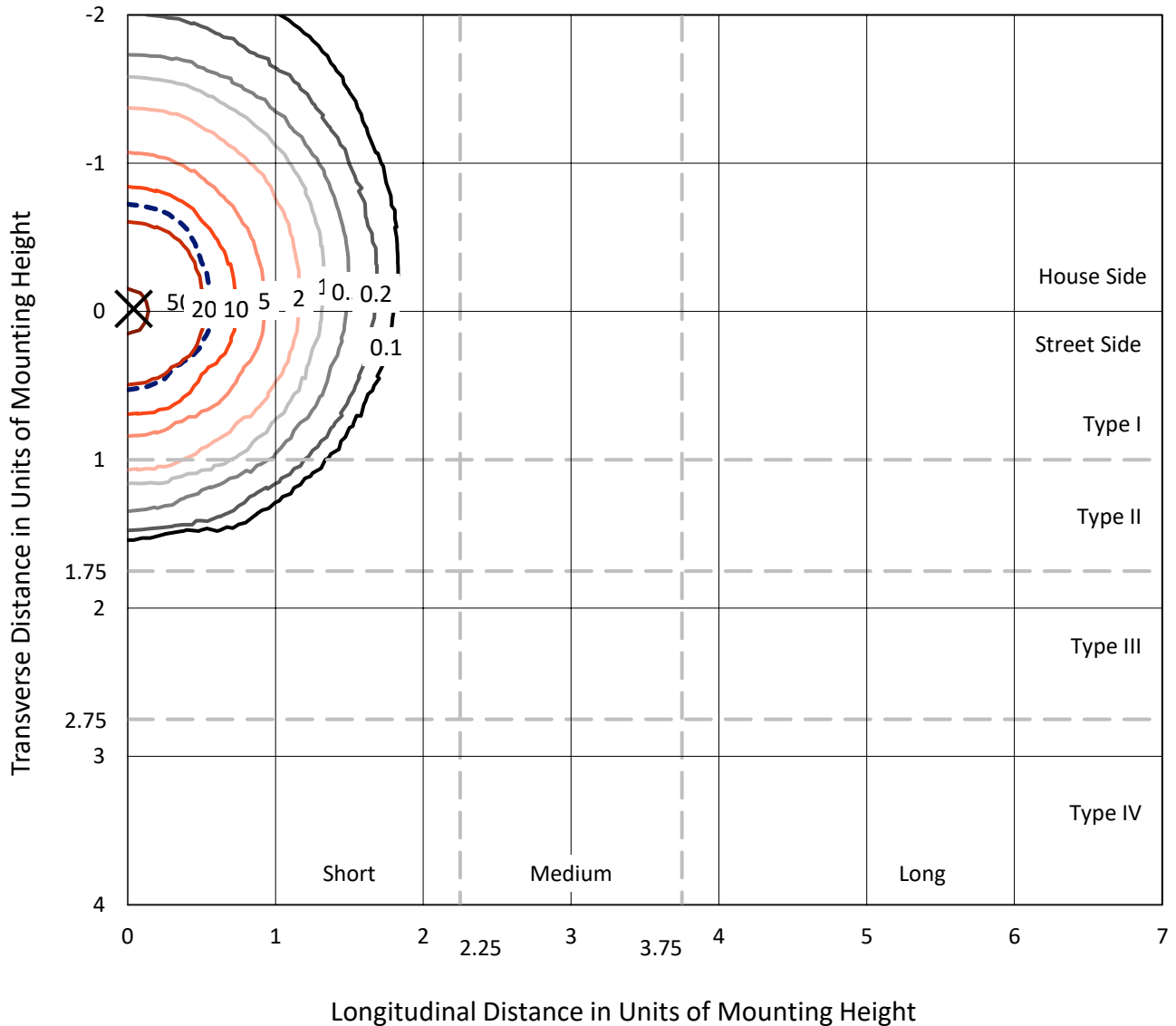
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

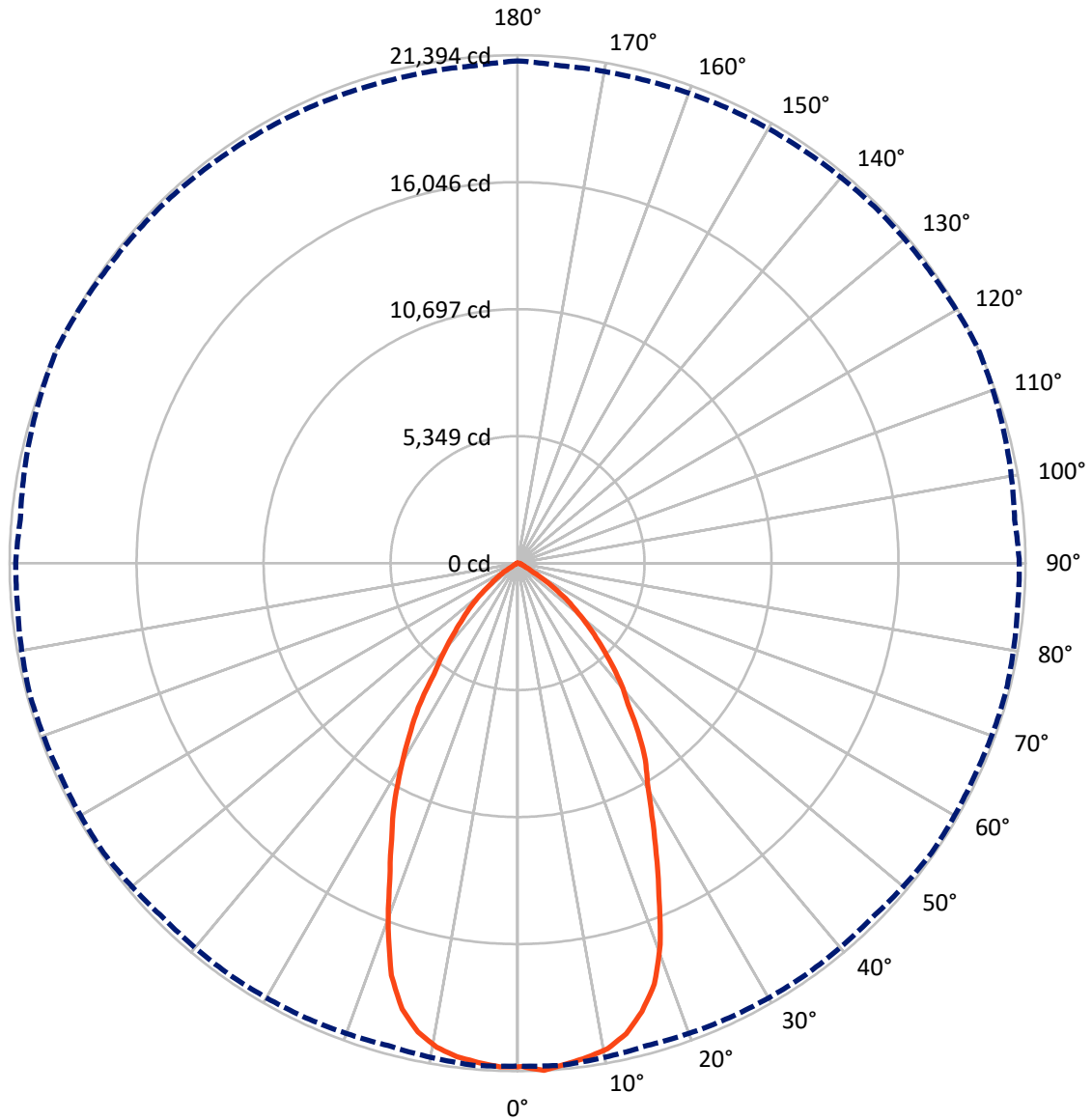
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53 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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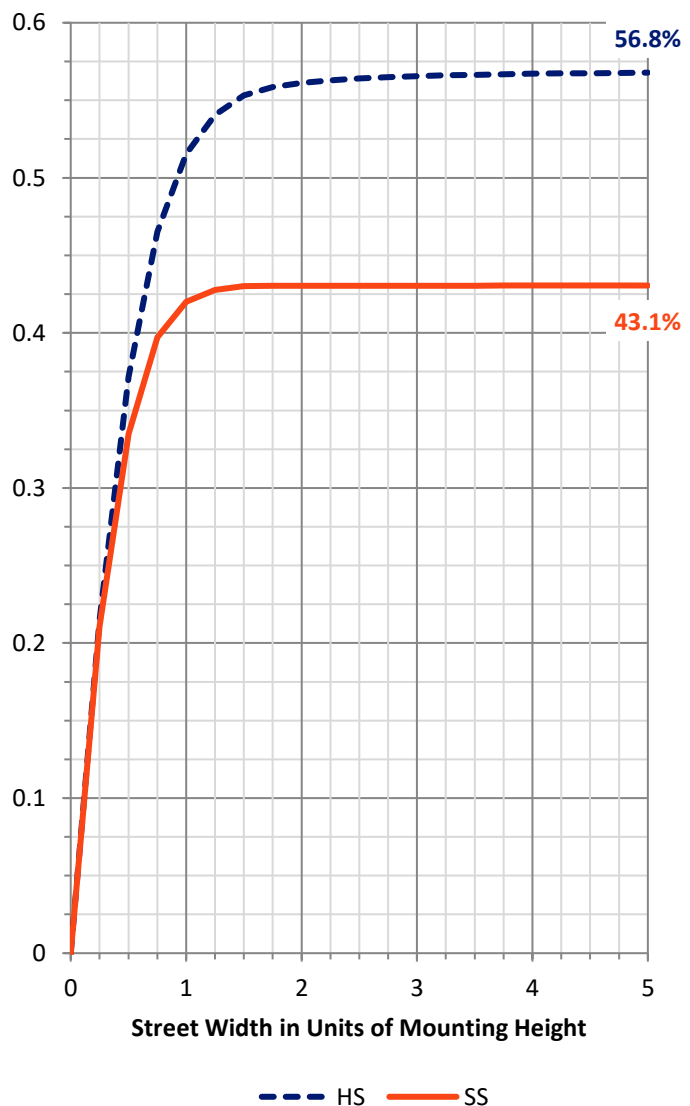
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13681.4	0.0	13681.4
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	10225.1	0.0	10225.1
	% Fixture	42.8	0.0	42.8
Total	Lumens	23906.5	0.0	23906.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1997.8	8.4
10°-20°	5297.2	22.2
20°-30°	6058.9	25.3
30°-40°	5192.3	21.7
40°-50°	3433.3	14.4
50°-60°	1498.2	6.3
60°-70°	294.4	1.2
70°-80°	106.2	0.4
80°-90°	28.2	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°	23906.5	100.0
0°-180°	23906.5	100.0



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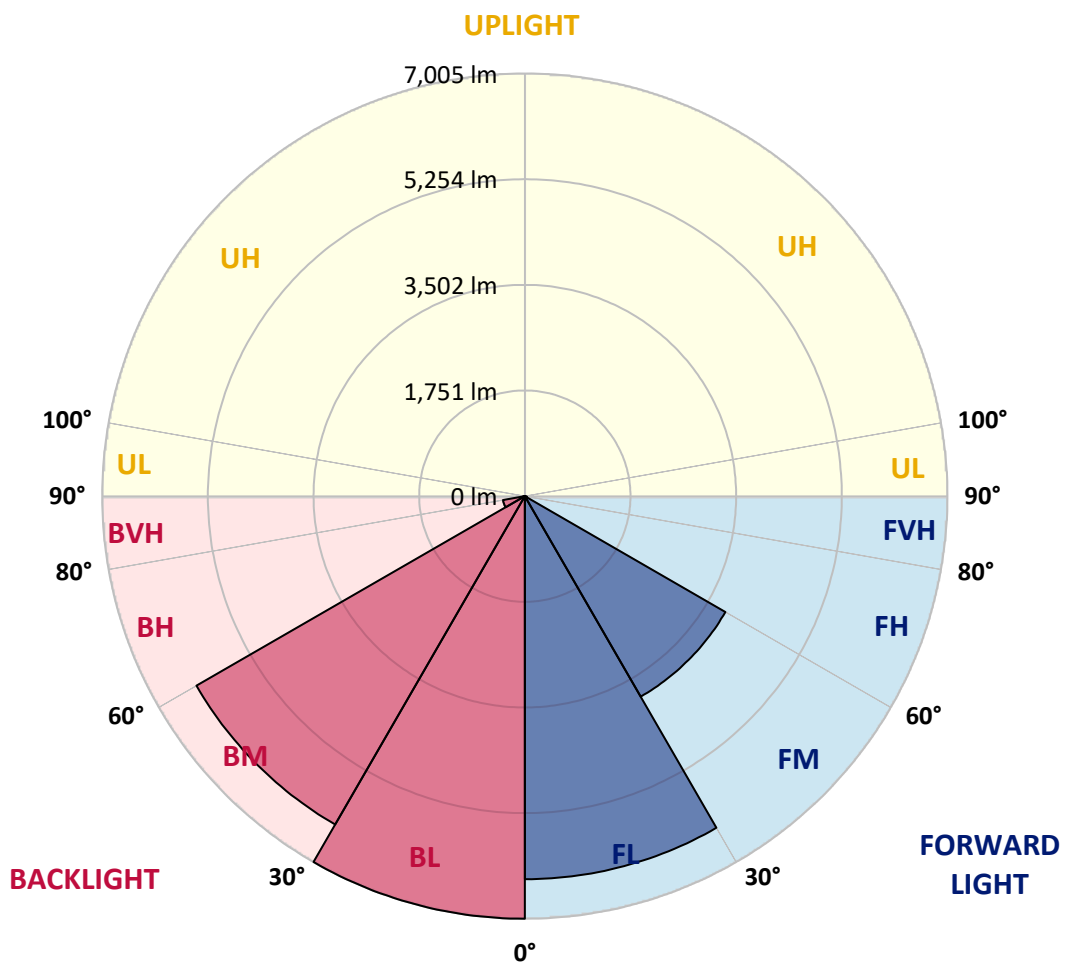
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6349.1	26.6			
FM (30°-60°)	3838.9	16.1			
FH (60°-80°)	32.5	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	7004.8	29.3	B5		
BM (30°-60°)	6284.9	26.3	B4/8500		
BH (60°-80°)	368.0	1.5	B1/500		G1/500
BVH (80°-90°)	23.6	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°	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1
2.5°	21180.6	21231.4	21038.3	21124.7	21160.3	21114.5	21282.2	21231.4	21272.1	21145.0
5°	21180.6	21231.4	21007.8	21048.5	21058.6	20972.2	21155.2	21094.2	21099.3	20967.2
7.5°	21048.5	21109.4	20906.2	20936.7	20941.7	20870.6	21028.1	20941.7	20911.3	20774.0
10°	20692.7	20728.3	20545.4	20621.6	20692.7	20626.7	20763.9	20667.3	20667.3	20545.4
12.5°	20128.7	20194.7	19991.5	20082.9	20143.9	20067.7	20225.2	20189.7	20194.7	20072.8
15°	19102.2	18873.5	19117.4	19300.4	19305.4	19290.2	19437.6	19402.0	19427.4	19244.5
17.5°	14111.9	14056.0	14340.6	16500.3	18106.1	18324.7	18350.1	18157.0	18070.6	17892.7
20°	13075.3	13115.9	13054.9	13065.1	14330.4	16957.7	16800.1	16322.5	16104.0	15926.1
22.5°	12318.1	12252.0	12211.4	12186.0	12221.5	13934.1	15067.3	14345.7	14228.8	14142.4
25°	11494.8	11464.3	11413.5	11403.4	11383.0	11093.4	12724.6	12790.7	12602.7	12495.9
27.5°	10727.5	10707.2	10651.3	10646.2	10412.4	9711.2	9889.0	11459.3	11408.4	11367.8
30°	9909.3	9868.7	9838.2	9838.2	9131.8	8410.2	8120.6	9990.7	9990.7	9955.1
32.5°	9020.0	8984.5	8994.6	8872.7	8029.1	7368.5	6911.1	8623.7	9157.2	9126.8
35°	5513.7	5503.5	6535.1	7891.9	6901.0	6301.3	6270.8	7378.6	8156.2	8237.5
37.5°	4908.9	4878.4	4893.7	4980.1	5910.0	5671.2	5661.0	5849.1	6941.6	6982.3
40°	4405.8	4385.5	4370.3	4060.3	3765.6	5061.4	5025.8	4903.9	5930.4	6001.5
42.5°	3928.2	3907.8	3907.8	3470.8	2993.1	4161.9	4177.2	4034.9	5000.4	5025.8
45°	3435.2	3420.0	3333.6	2769.5	2632.3	2764.5	3460.6	3298.0	3968.8	4233.1
47.5°	1621.1	1610.9	2332.5	2302.0	2291.9	2210.5	2642.5	2734.0	3150.7	3414.9
50°	1300.9	1290.8	1229.8	1082.4	1885.3	1677.0	1905.6	2103.8	2236.0	2479.9
52.5°	1077.3	1067.2	940.1	833.4	1046.8	1224.7	1138.3	1407.6	1402.6	1666.8
55°	706.4	655.5	721.6	680.9	548.8	889.3	869.0	1067.2	1041.8	1270.4
57.5°	15.2	15.2	35.6	386.2	345.6	376.0	498.0	609.8	686.0	752.1
60°	5.1	5.1	10.2	20.3	142.3	157.5	193.1	223.6	315.1	391.3
62.5°	0.0	0.0	5.1	10.2	20.3	81.3	91.5	106.7	147.4	203.3
65°	0.0	0.0	0.0	5.1	10.2	20.3	30.5	66.1	91.5	116.9
67.5°	0.0	0.0	0.0	5.1	5.1	10.2	20.3	30.5	40.7	81.3
70°	0.0	0.0	0.0	5.1	5.1	10.2	15.2	20.3	30.5	40.7
72.5°	0.0	0.0	0.0	5.1	5.1	15.2	10.2	15.2	20.3	25.4
75°	0.0	0.0	0.0	5.1	5.1	5.1	10.2	15.2	15.2	20.3
77.5°	0.0	0.0	0.0	5.1	10.2	10.2	10.2	10.2	10.2	15.2
80°	0.0	0.0	0.0	5.1	5.1	10.2	15.2	20.3	10.2	10.2
82.5°	0.0	0.0	0.0	10.2	5.1	20.3	30.5	25.4	10.2	5.1
85°	0.0	0.0	0.0	5.1	20.3	25.4	25.4	15.2	5.1	5.1
87.5°	0.0	0.0	0.0	5.1	5.1	10.2	15.2	15.2	5.1	5.1
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°
21211.1	0°	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1	21211.1
21134.8	2.5°	21018.0	21216.2	21394.0	21282.2	21241.6	21160.3	21099.3	21033.2	21028.1
20951.9	5°	20835.0	21023.1	21195.8	21063.7	21073.9	21033.2	20992.6	20977.3	20987.5
20763.9	7.5°	20677.5	20835.0	21023.1	20911.3	20941.7	20916.3	20896.0	20865.5	20911.3
20520.0	10°	20438.7	20580.9	20799.5	20692.7	20677.5	20652.1	20631.8	20575.9	20601.3
20077.9	12.5°	19915.2	20093.1	20342.1	20220.1	20260.8	20189.7	20159.2	20123.6	20128.7
19310.5	15°	19203.8	19341.0	19595.1	19498.5	19529.0	19483.3	19483.3	19483.3	19518.9
17918.1	17.5°	17963.9	18243.4	18644.8	18522.8	18568.6	18578.7	18568.6	18604.2	18649.9
15936.3	20°	15946.4	16424.1	17155.9	17394.7	17491.3	17496.3	17425.2	17511.6	17603.1
14081.4	22.5°	14091.6	14594.7	15240.1	15895.6	16302.1	16281.8	16292.0	16347.9	16444.4
12429.9	25°	12485.8	12968.5	13552.9	14137.3	15026.6	15209.6	15214.7	15265.5	15341.7
11301.7	27.5°	11327.1	11515.2	12048.7	12638.2	13593.6	14178.0	14147.5	14193.2	14274.5
9889.0	30°	9929.7	10651.3	10773.2	11134.0	11957.3	13029.5	13034.6	13085.4	13166.7
9055.6	32.5°	9030.2	9507.9	9883.9	9894.1	10595.4	11698.1	11916.6	11967.4	12023.3
8191.7	35°	8186.6	8242.5	8750.7	8893.0	9299.5	10392.1	10778.3	10808.8	10900.3
6967.0	37.5°	7083.9	7414.2	7556.5	8064.7	8085.0	8969.2	9736.6	9706.1	9777.2
5996.4	40°	6072.6	6387.7	6748.5	7119.5	7170.3	7830.9	8679.6	8710.1	8740.5
4975.0	42.5°	5015.7	5417.1	5788.1	6037.1	6382.6	6763.8	7571.8	7714.0	7785.2
4263.6	45°	4339.8	4451.6	4893.7	5259.6	5610.2	5788.1	6545.2	6804.4	6850.2
3374.3	47.5°	3420.0	3796.0	4095.9	4405.8	4842.9	5000.4	5549.2	5910.0	5945.6
2505.3	50°	2642.5	2911.8	3323.4	3602.9	4111.1	4197.5	4573.5	5041.1	5086.8
1677.0	52.5°	1890.4	2256.3	2657.7	2927.1	3414.9	3526.7	3806.2	4253.4	4283.9
1285.7	55°	1356.8	1595.7	1926.0	2312.2	2667.9	2916.9	3110.0	3536.9	3577.5
843.6	57.5°	924.9	1148.5	1285.7	1671.9	1885.3	2154.6	2312.2	2637.4	2667.9
401.5	60°	442.1	548.8	655.5	848.6	985.9	1214.5	1316.2	1448.3	1483.9
243.9	62.5°	284.6	335.4	426.9	508.2	640.3	782.6	823.2	935.0	975.7
152.5	65°	188.0	238.8	335.4	355.7	487.8	599.6	650.5	731.8	777.5
91.5	67.5°	106.7	167.7	249.0	294.7	386.2	492.9	548.8	620.0	660.6
61.0	70°	71.1	137.2	198.2	243.9	304.9	396.4	467.5	528.5	553.9
30.5	72.5°	40.7	86.4	137.2	193.1	243.9	330.3	396.4	447.2	294.7
20.3	75°	25.4	66.1	116.9	162.6	203.3	264.2	320.1	315.1	132.1
15.2	77.5°	20.3	50.8	101.6	137.2	167.7	182.9	228.7	259.2	101.6
10.2	80°	15.2	40.7	91.5	116.9	66.1	132.1	177.9	193.1	71.1
10.2	82.5°	10.2	25.4	76.2	81.3	45.7	96.6	142.3	127.0	50.8
5.1	85°	5.1	15.2	25.4	45.7	40.7	45.7	35.6	50.8	35.6
5.1	87.5°	5.1	10.2	20.3	20.3	20.3	15.2	20.3	20.3	20.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21211.1
21150.1
21114.5
21038.3
20723.2
20276.0
19534.1
18802.3
17664.0
16459.7
15473.8
14350.8
13309.0
12150.4
10996.8
9863.6
8837.1
7886.8
6961.9
6032.0
5152.9
4339.8
3613.1
2728.9
1524.5
985.9
777.5
655.5
548.8
238.8
132.1
101.6
76.2
50.8
35.6
20.3
0.0

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