

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: P638205

Luminaire Tested: **IFLD-M-SA4D-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638205
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24614.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

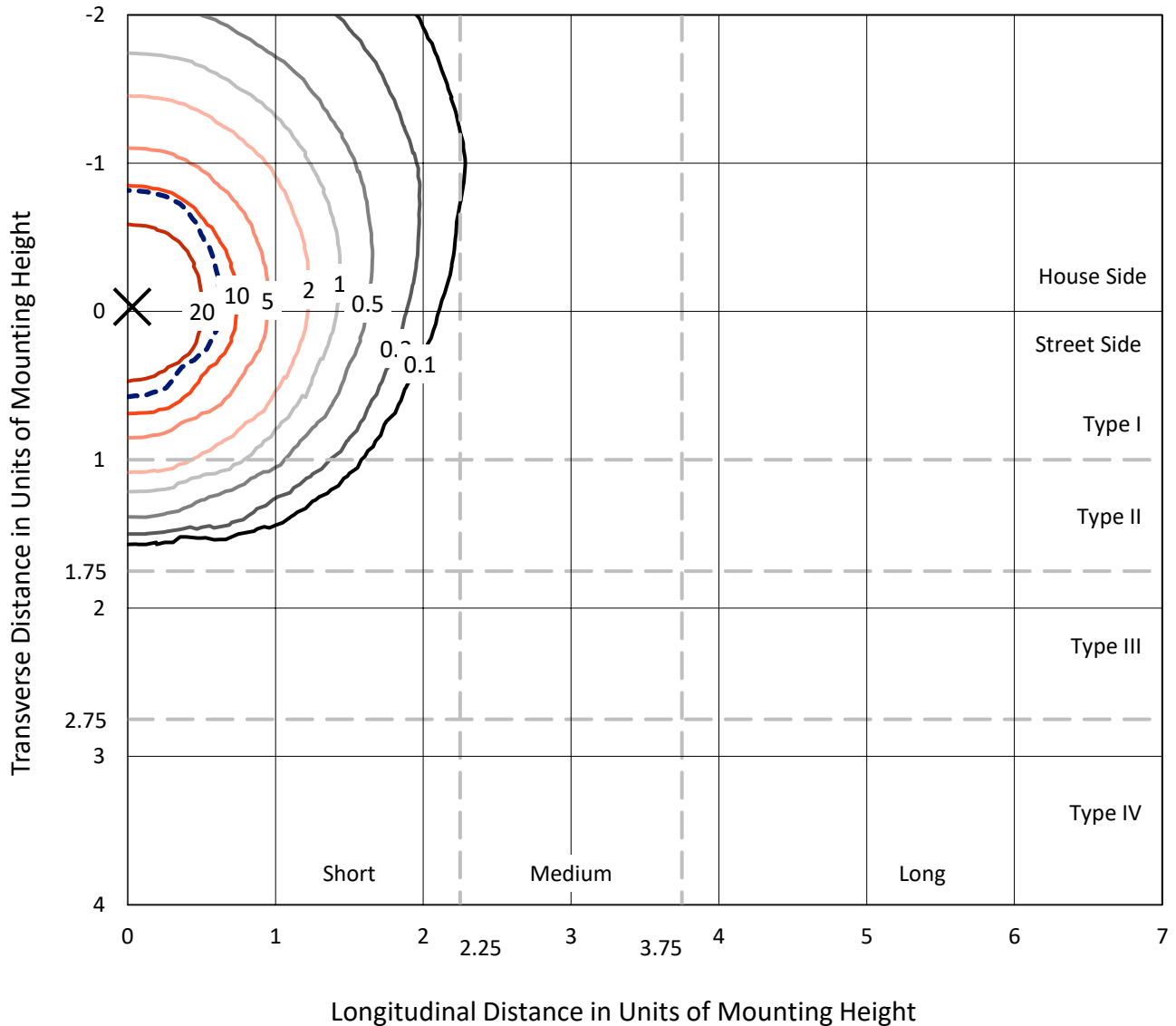
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

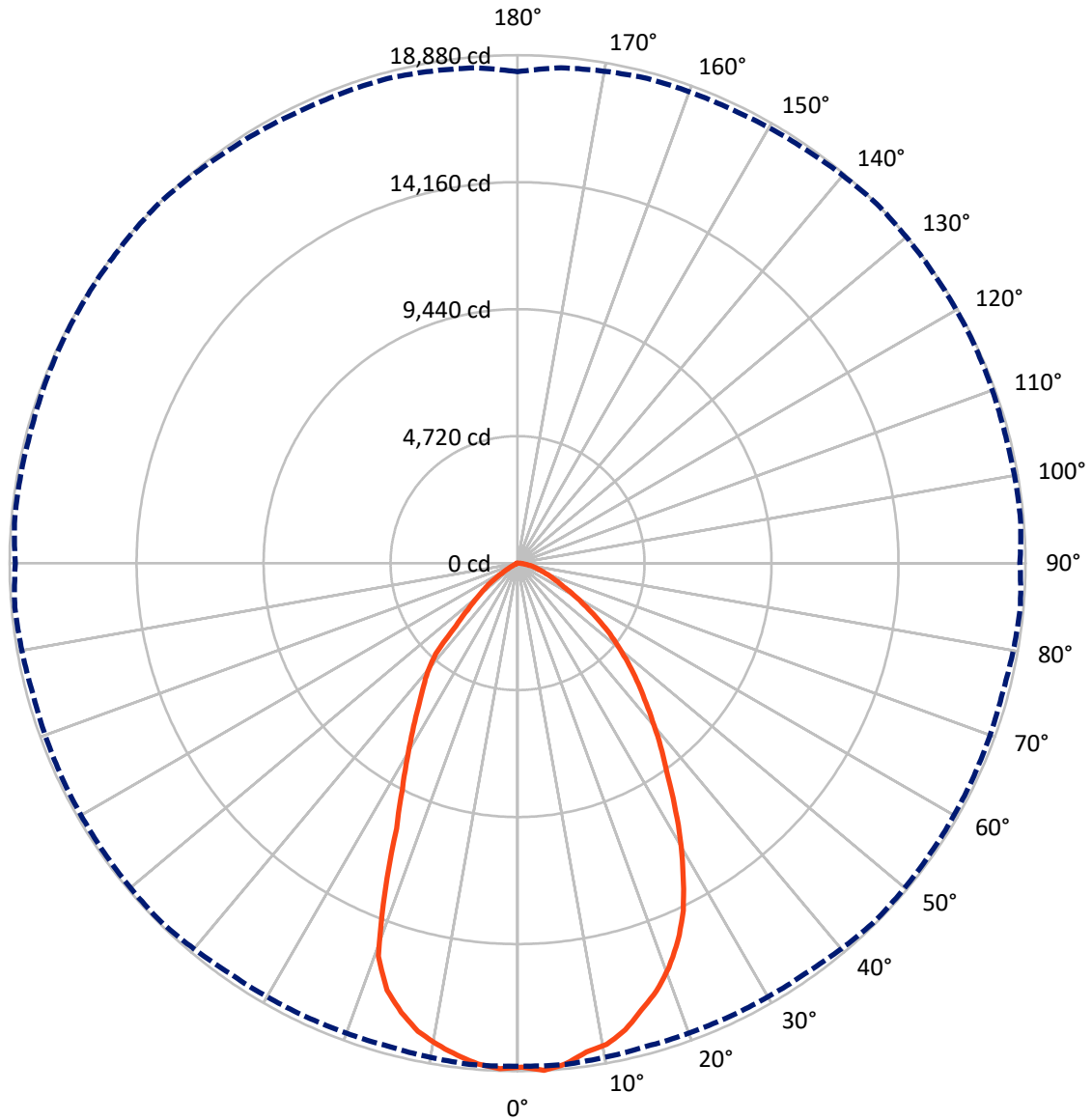
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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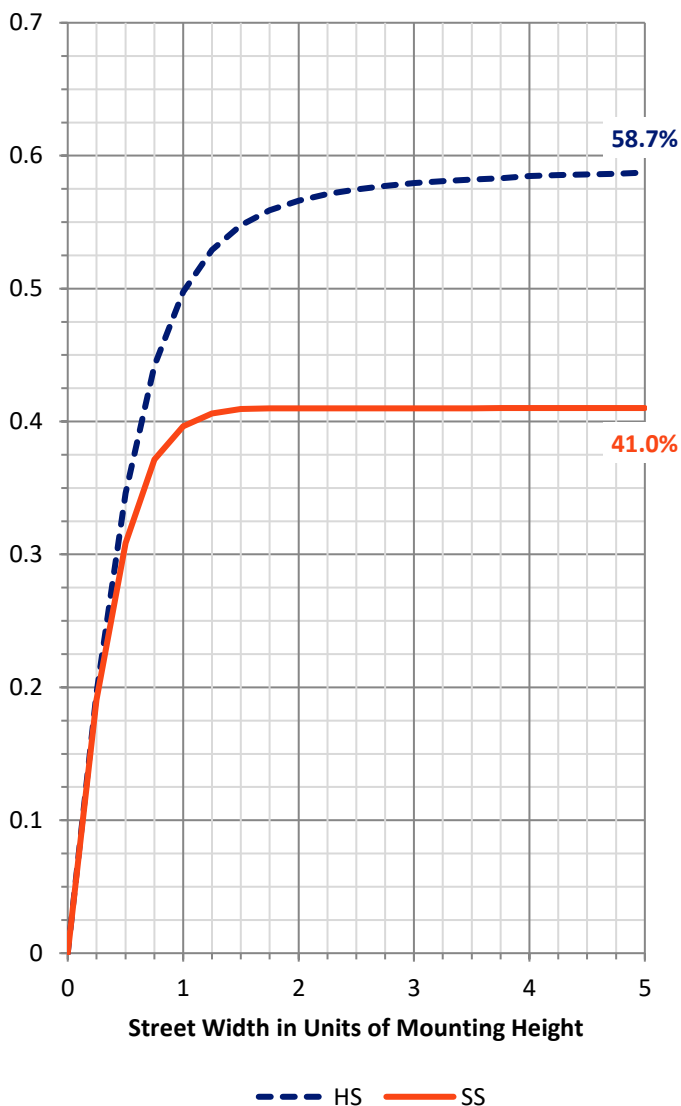
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14577.8	0.0	14577.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10036.4	0.0	10036.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	24614.2	0.0	24614.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1756.7	7.1
10°-20°	4710.7	19.1
20°-30°	5745.0	23.3
30°-40°	5245.1	21.3
40°-50°	3790.5	15.4
50°-60°	2069.7	8.4
60°-70°	855.7	3.5
70°-80°	346.6	1.4
80°-90°	94.3	0.4
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°	24614.2	100.0
0°-180°	24614.2	100.0



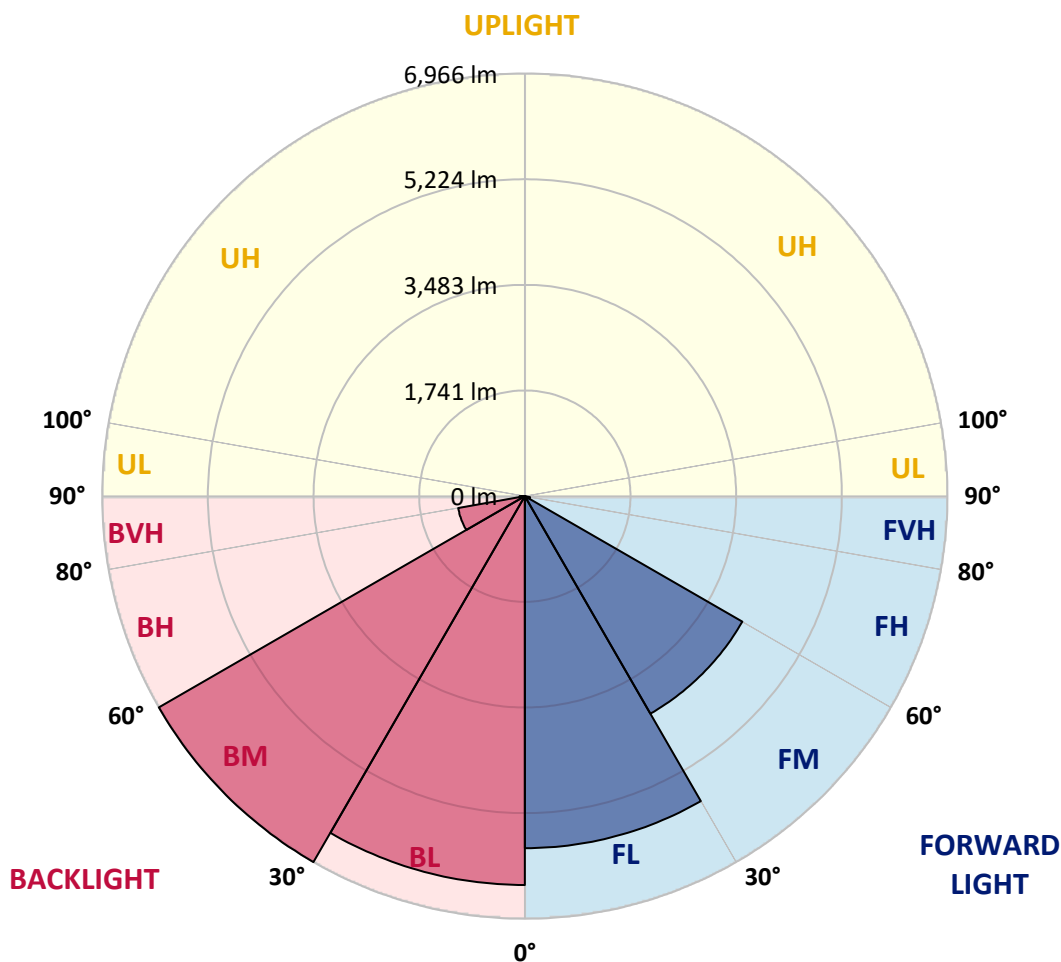
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5802.5	23.6			
FM (30°-60°)	4139.6	16.8			
FH (60°-80°)	86.7	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6409.9	26.0	B5		
BM (30°-60°)	6965.6	28.3	B4/8500		
BH (60°-80°)	1115.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3
2.5°	18696.6	18720.9	18589.2	18603.0	18627.3	18804.1	18759.0	18717.4	18658.5	18759.0
5°	18672.4	18686.2	18547.6	18499.1	18519.9	18679.3	18533.7	18533.7	18519.9	18502.5
7.5°	18485.2	18492.1	18384.7	18298.0	18353.5	18426.3	18318.8	18370.8	18294.6	18353.5
10°	18204.4	18159.4	18031.1	18006.9	18069.3	18138.6	18065.8	18114.3	18045.0	18090.0
12.5°	17792.0	17722.6	17618.6	17587.5	17694.9	17788.5	17729.6	17701.8	17611.7	17722.6
15°	16201.0	16149.0	16384.7	16797.2	17168.0	17247.8	17185.4	17213.1	17025.9	17057.1
17.5°	13334.4	13237.4	13490.4	14467.9	15861.3	16596.1	16540.7	16360.4	16083.1	16145.5
20°	12117.8	12090.1	12062.3	12294.6	13268.6	15497.3	15573.6	15116.1	14720.9	14634.3
22.5°	11431.5	11421.1	11393.4	11445.4	11701.9	13133.4	14006.9	13584.0	13320.6	13296.3
25°	10804.1	10786.8	10703.6	10769.5	10769.5	10852.6	11972.2	12228.7	11996.5	11968.8
27.5°	10166.3	10135.1	10121.3	10152.5	9993.0	9431.5	9715.7	10967.0	10845.7	10852.6
30°	9476.6	9466.2	9428.0	9493.9	9001.7	8305.0	8124.8	9823.2	9847.4	9840.5
32.5°	8450.6	8495.6	8668.9	8741.7	7930.6	7355.3	7053.7	8499.1	8994.8	8984.4
35°	6138.6	6138.6	6703.6	7753.9	6949.7	6516.4	6353.5	7206.2	8152.5	8187.1
37.5°	5046.8	5064.1	5175.0	5653.4	5996.5	5844.0	5795.5	6065.8	7071.0	7126.5
40°	4540.7	4540.7	4540.7	4343.1	4332.7	5265.1	5237.4	5150.8	6107.4	6228.7
42.5°	4079.7	4090.1	4097.0	3597.9	3320.6	4551.1	4488.7	4357.0	5244.3	5386.5
45°	3604.8	3622.2	3643.0	3008.7	2887.3	3275.5	3798.9	3653.4	4391.7	4575.4
47.5°	2201.0	2228.8	2700.2	2551.1	2565.0	2526.9	3098.8	3074.5	3601.4	3861.3
50°	1487.0	1497.4	1542.5	1618.7	2201.0	1986.1	2194.1	2544.2	2734.8	3130.0
52.5°	1247.8	1265.2	1154.2	1050.3	1445.4	1552.9	1532.1	1889.1	1965.3	2454.1
55°	876.9	932.4	880.4	870.0	821.5	1206.2	1161.2	1452.3	1500.9	1864.8
57.5°	90.1	104.0	180.2	648.2	537.3	682.8	828.4	1064.1	1112.6	1376.1
60°	6.9	6.9	17.3	90.1	391.7	409.0	571.9	655.1	748.7	960.1
62.5°	0.0	3.5	6.9	13.9	62.4	218.4	287.7	343.2	450.6	620.4
65°	0.0	0.0	3.5	10.4	13.9	83.2	110.9	180.2	246.1	384.7
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	38.1	65.9	131.7	218.4
70°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	41.6	58.9	117.9
72.5°	0.0	0.0	3.5	3.5	6.9	17.3	20.8	27.7	41.6	58.9
75°	0.0	0.0	3.5	3.5	10.4	20.8	17.3	20.8	27.7	38.1
77.5°	0.0	0.0	3.5	6.9	10.4	20.8	17.3	20.8	20.8	24.3
80°	0.0	0.0	3.5	6.9	13.9	24.3	20.8	20.8	17.3	17.3
82.5°	0.0	0.0	3.5	10.4	13.9	31.2	31.2	27.7	13.9	10.4
85°	0.0	0.0	6.9	13.9	20.8	34.7	34.7	27.7	10.4	6.9
87.5°	0.0	0.0	6.9	10.4	17.3	24.3	34.7	27.7	10.4	3.5
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°
18731.3	0°	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3	18731.3
18672.4	2.5°	18766.0	18745.2	18814.5	18842.2	18880.3	18734.8	18644.6	18648.1	18481.7
18460.9	5°	18571.8	18575.3	18665.4	18658.5	18696.6	18616.9	18582.2	18523.3	18377.7
18194.0	7.5°	18325.7	18294.6	18381.2	18447.1	18350.0	18405.5	18325.7	18353.5	18266.8
17958.3	10°	18135.1	18062.3	18142.0	18187.1	18190.6	18135.1	18058.9	17986.1	17954.9
17590.9	12.5°	17712.2	17618.6	17753.8	17816.2	17805.8	17698.4	17611.7	17629.0	17528.5
16946.2	15°	17129.9	17133.4	17230.4	17289.4	17233.9	17209.6	17216.6	17175.0	17088.3
16055.4	17.5°	16239.1	16291.1	16547.6	16689.7	16720.9	16672.4	16648.1	16599.6	16512.9
14634.3	20°	14755.6	15067.5	15525.1	15965.3	16051.9	16038.1	15951.4	15930.6	15882.1
13227.0	22.5°	13452.3	13684.5	14214.8	14901.2	15254.7	15289.4	15185.4	15154.2	15102.2
11968.8	25°	12103.9	12353.5	12831.8	13577.1	14308.4	14457.5	14440.1	14346.6	14291.1
10852.6	27.5°	10967.0	11216.6	11649.9	12322.3	13105.7	13584.0	13629.1	13480.0	13476.5
9857.8	30°	9941.0	10284.2	10613.5	11161.1	11920.2	12637.7	12714.0	12610.0	12620.4
8946.2	32.5°	9136.9	9421.1	9701.9	10069.3	10700.1	11535.5	11833.6	11736.5	11698.4
8187.1	35°	8315.4	8509.5	8797.2	9133.4	9563.2	10391.6	10908.1	10835.3	10797.2
7161.1	37.5°	7379.5	7712.3	7920.2	8298.1	8634.3	9292.9	10020.8	10010.4	9930.6
6287.7	40°	6419.4	6769.5	7084.9	7466.2	7726.1	8249.5	9057.2	9053.7	9064.1
5383.0	42.5°	5549.4	5871.7	6253.0	6669.0	6918.5	7299.8	8166.3	8214.9	8273.8
4637.8	45°	4762.5	5053.7	5407.3	5913.3	6214.9	6433.2	7202.7	7424.6	7421.1
3972.3	47.5°	4055.4	4329.3	4627.4	5119.6	5504.3	5701.9	6339.7	6655.1	6634.3
3258.2	50°	3403.8	3646.4	3958.4	4315.4	4831.9	5005.2	5480.0	5896.0	5864.8
2596.2	52.5°	2738.3	3074.5	3337.9	3663.8	4208.0	4377.8	4745.2	5150.8	5126.5
1948.0	55°	2135.2	2461.0	2779.9	3060.6	3518.2	3771.2	4034.6	4450.6	4443.7
1525.1	57.5°	1615.2	1972.3	2273.8	2540.7	2904.7	3216.6	3428.1	3805.9	3854.4
1043.3	60°	1195.8	1469.7	1795.5	2093.6	2381.3	2703.6	2845.7	3216.6	3237.4
714.0	62.5°	814.6	1116.1	1435.0	1705.4	1920.3	2253.0	2381.3	2686.3	2724.4
457.5	65°	565.0	759.1	1123.0	1317.2	1580.6	1864.8	1993.1	2235.7	2311.9
263.4	67.5°	374.3	540.7	876.9	1053.7	1313.7	1507.8	1670.7	1868.3	1951.5
166.4	70°	204.5	398.6	627.4	831.9	1057.2	1244.4	1403.8	1563.3	1636.0
76.3	72.5°	138.6	266.9	436.7	658.6	852.7	1036.4	1178.5	1296.4	1299.8
45.1	75°	69.3	180.2	332.8	509.5	665.5	845.8	974.0	1043.3	960.1
27.7	77.5°	41.6	131.7	270.4	409.0	540.7	682.8	755.6	793.8	658.6
20.8	80°	24.3	93.6	211.4	325.8	374.3	502.6	571.9	582.3	440.2
13.9	82.5°	17.3	69.3	166.4	239.2	228.8	353.6	429.8	415.9	280.8
10.4	85°	10.4	48.5	104.0	149.0	138.6	232.2	249.6	256.5	162.9
6.9	87.5°	6.9	27.7	55.5	79.7	65.9	100.5	100.5	121.3	79.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18731.3
18266.8
18343.1
18121.2
17816.2
17441.9
17001.7
16474.8
15771.2
15088.3
14232.2
13469.6
12568.4
11701.9
10745.2
9996.5
9064.1
8242.6
7428.0
6641.2
5892.5
5178.5
4461.0
3833.6
3268.6
2731.4
2294.6
1941.1
1608.3
1268.6
897.7
634.3
412.5
260.0
149.0
69.3
0.0

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