

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: P638176

Luminaire Tested: **IFLD-M-SA4D-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24063.1 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

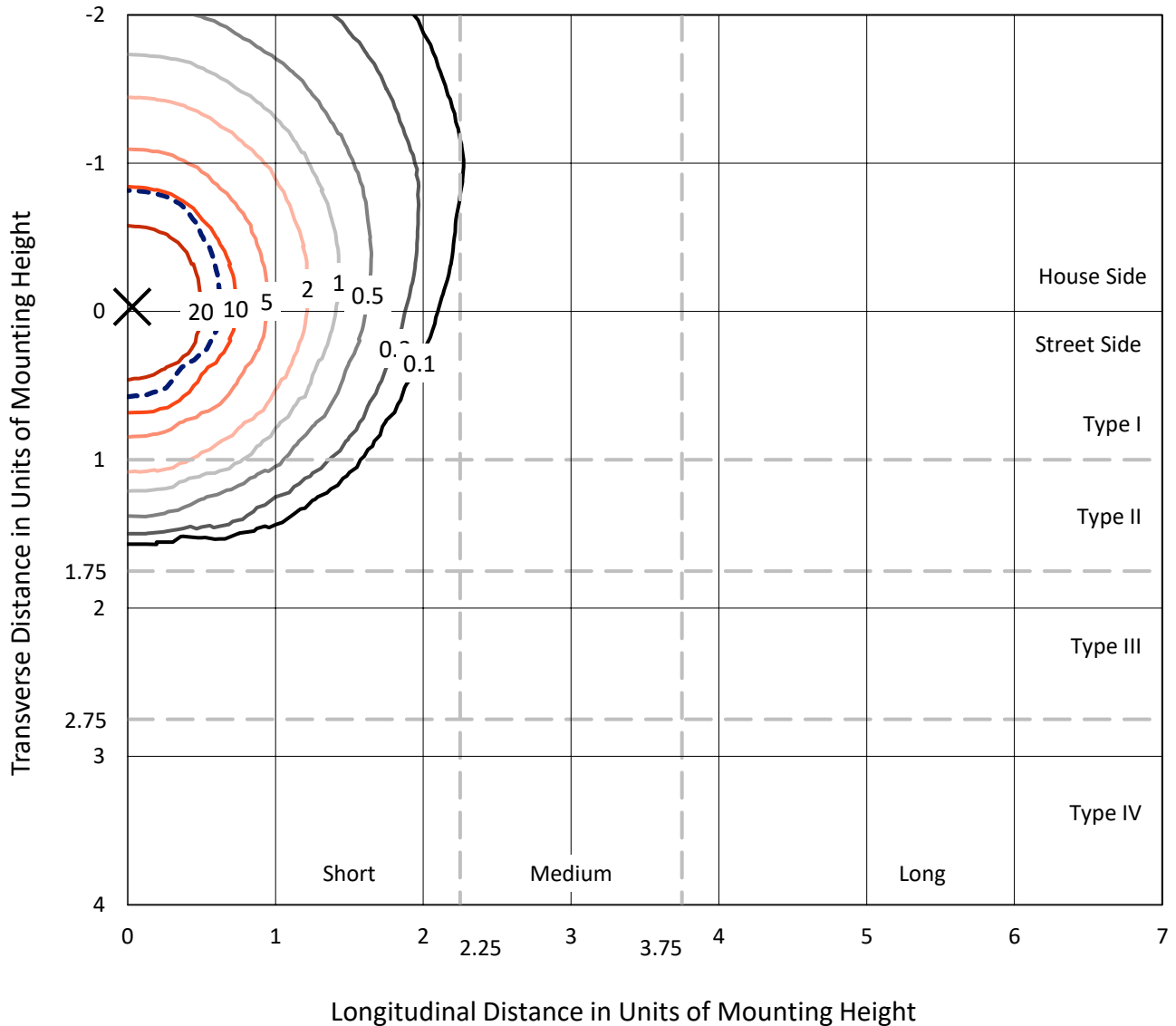
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638176
 CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

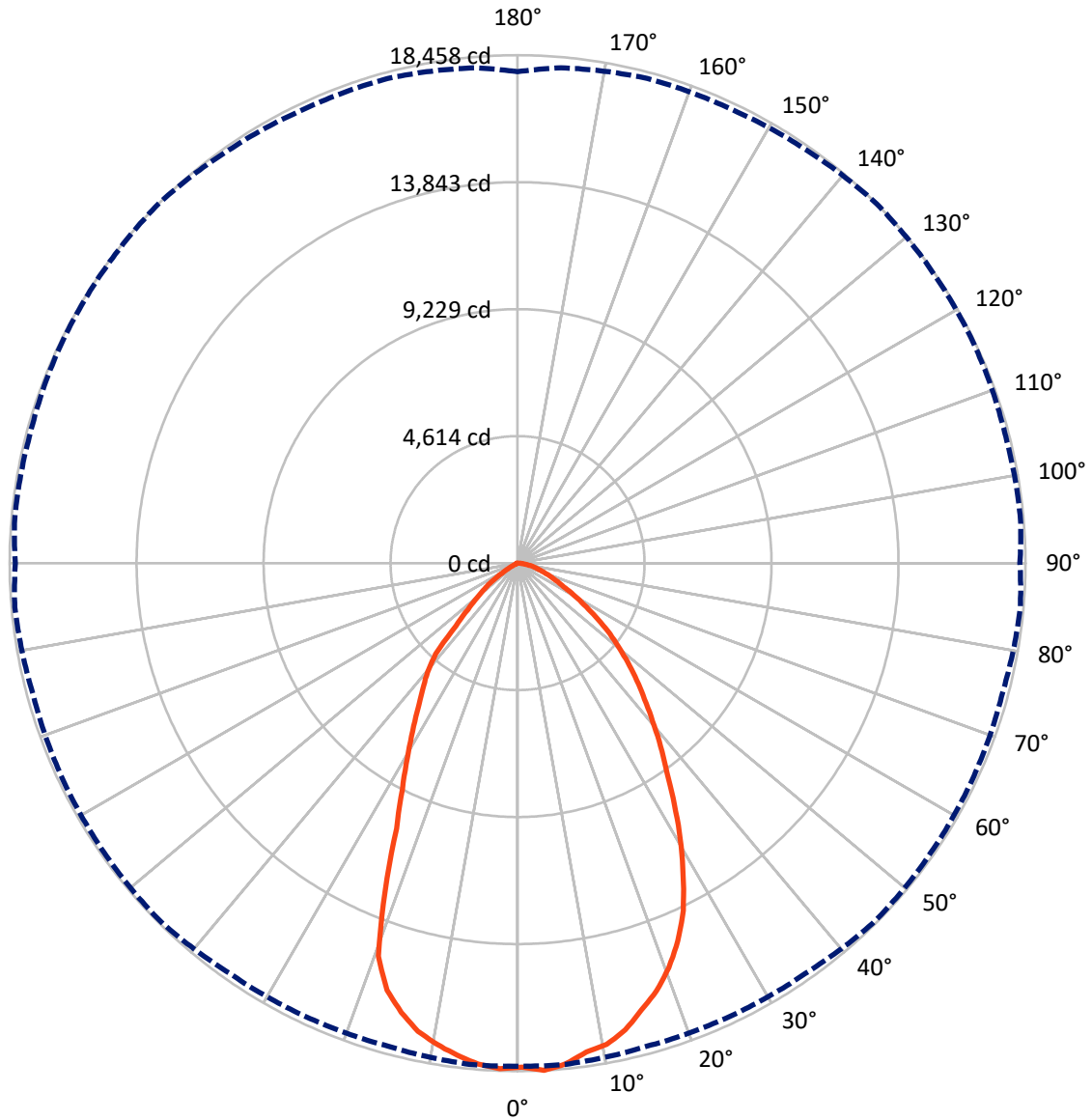
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638176
CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638176
 CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

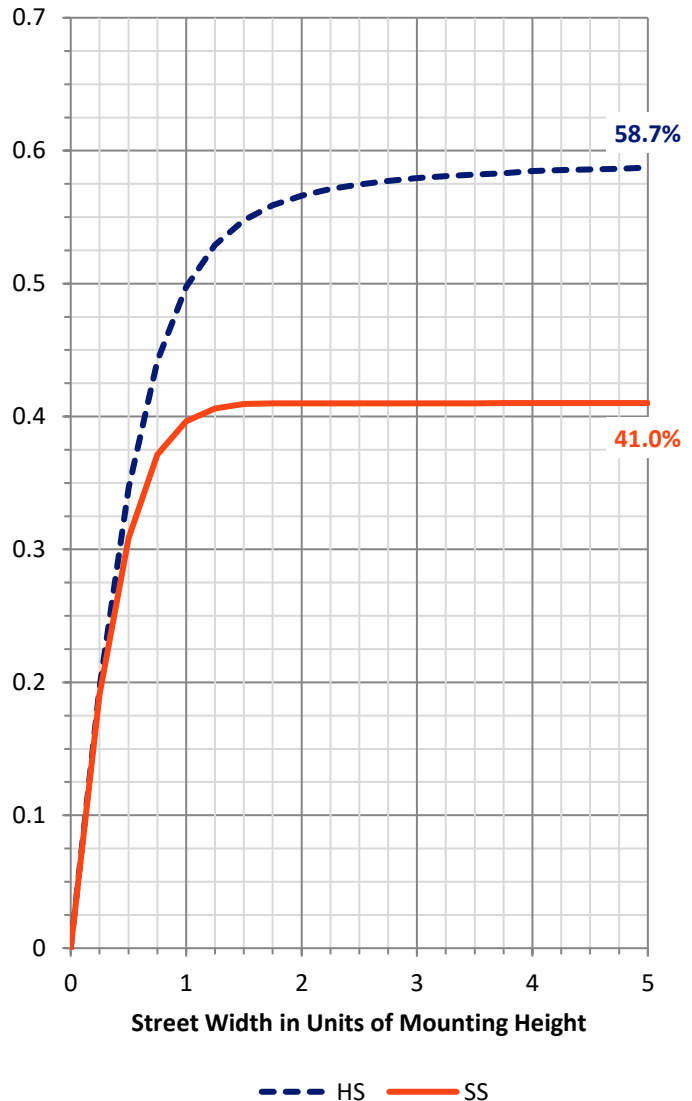
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14251.4	0.0	14251.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9811.7	0.0	9811.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	24063.1	0.0	24063.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1717.4	7.1
10°-20°	4605.2	19.1
20°-30°	5616.3	23.3
30°-40°	5127.7	21.3
40°-50°	3705.6	15.4
50°-60°	2023.3	8.4
60°-70°	836.6	3.5
70°-80°	338.8	1.4
80°-90°	92.2	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°	24063.1	100.0
0°-180°	24063.1	100.0



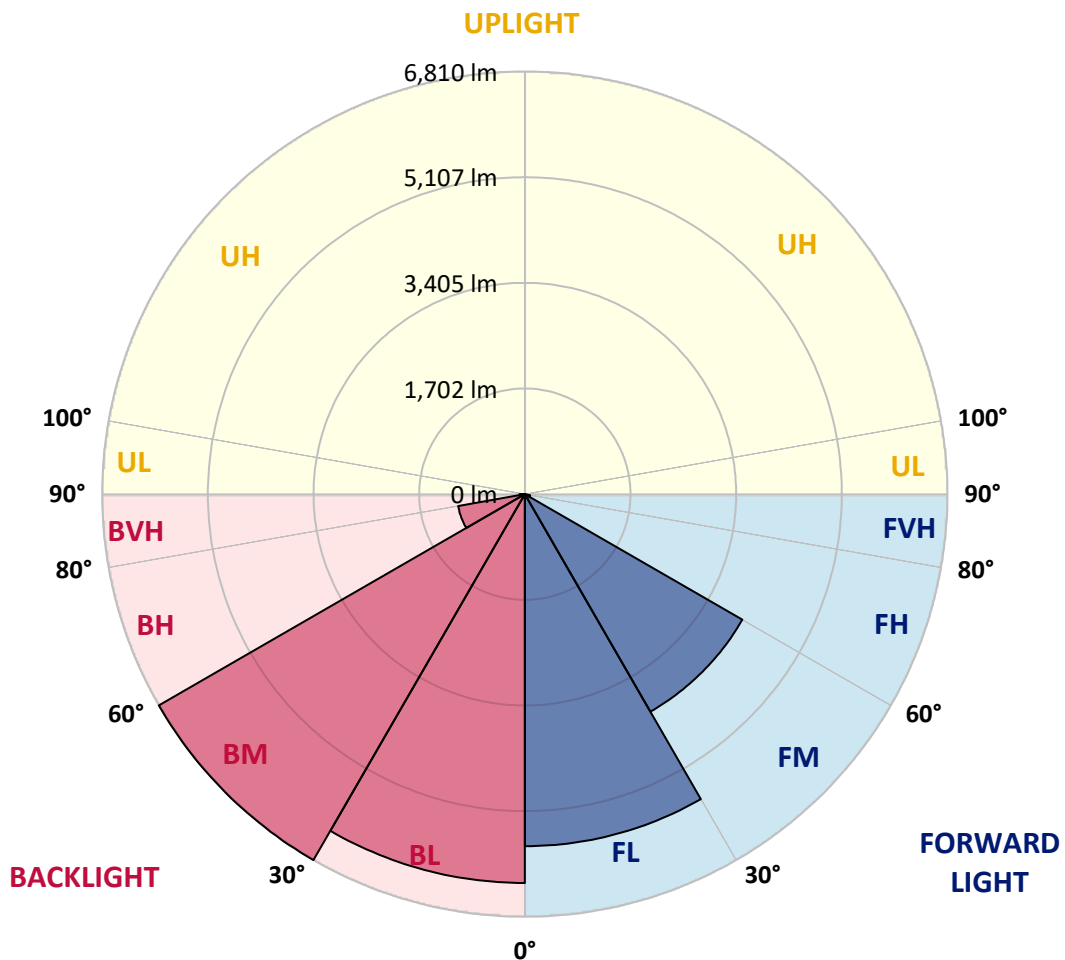
REPORT NUMBER: P638176
 CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5672.6	23.6			
FM (30°-60°)	4047.0	16.8			
FH (60°-80°)	84.8	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	6266.4	26.0	B5		
BM (30°-60°)	6809.7	28.3	B4/8500		
BH (60°-80°)	1090.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	84.8	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





REPORT NUMBER: P638176
 CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9
2.5°	18278.1	18301.8	18173.0	18186.6	18210.3	18383.1	18339.1	18298.4	18240.8	18339.1
5°	18254.3	18267.9	18132.4	18084.9	18105.2	18261.1	18118.8	18118.8	18105.2	18088.3
7.5°	18071.4	18078.1	17973.1	17888.4	17942.6	18013.8	17908.7	17959.5	17885.0	17942.6
10°	17796.9	17752.8	17627.5	17603.7	17664.7	17732.5	17661.3	17708.8	17641.0	17685.1
12.5°	17393.6	17325.9	17224.2	17193.7	17298.8	17390.3	17332.6	17305.5	17217.4	17325.9
15°	15838.3	15787.4	16017.9	16421.1	16783.7	16861.6	16800.6	16827.7	16644.8	16675.3
17.5°	13035.9	12941.0	13188.4	14144.0	15506.2	16224.6	16170.4	15994.2	15723.1	15784.1
20°	11846.5	11819.4	11792.3	12019.3	12971.5	15150.4	15224.9	14777.6	14391.3	14306.6
22.5°	11175.6	11165.4	11138.3	11189.1	11439.9	12839.4	13693.3	13279.9	13022.4	12998.6
25°	10562.2	10545.3	10464.0	10528.4	10528.4	10609.7	11704.2	11955.0	11727.9	11700.8
27.5°	9938.7	9908.2	9894.7	9925.2	9769.3	9220.4	9498.2	10721.5	10602.9	10609.7
30°	9264.4	9254.2	9217.0	9281.4	8800.2	8119.1	7942.9	9603.3	9627.0	9620.2
32.5°	8261.4	8305.4	8474.9	8546.0	7753.1	7190.6	6895.8	8308.8	8793.4	8783.2
35°	6001.2	6001.2	6553.5	7580.3	6794.1	6370.6	6211.3	7044.9	7970.0	8003.9
37.5°	4933.8	4950.7	5059.2	5526.8	5862.3	5713.2	5665.7	5930.0	6912.7	6966.9
40°	4439.1	4439.1	4439.1	4245.9	4235.7	5147.3	5120.2	5035.4	5970.7	6089.3
42.5°	3988.4	3998.5	4005.3	3517.4	3246.3	4449.2	4388.2	4259.5	5126.9	5265.9
45°	3524.1	3541.1	3561.4	2941.3	2822.7	3202.2	3713.9	3571.6	4293.3	4472.9
47.5°	2151.8	2178.9	2639.7	2494.0	2507.6	2470.3	3029.4	3005.7	3520.7	3774.9
50°	1453.7	1463.9	1507.9	1582.5	2151.8	1941.7	2145.0	2487.2	2673.6	3059.9
52.5°	1219.9	1236.8	1128.4	1026.7	1413.0	1518.1	1497.8	1846.8	1921.3	2399.1
55°	857.3	911.5	860.7	850.5	803.1	1179.2	1135.2	1419.8	1467.3	1823.1
57.5°	88.1	101.7	176.2	633.7	525.2	667.6	809.9	1040.3	1087.7	1345.3
60°	6.8	6.8	16.9	88.1	382.9	399.9	559.1	640.4	731.9	938.6
62.5°	0.0	3.4	6.8	13.6	61.0	213.5	281.3	335.5	440.5	606.6
65°	0.0	0.0	3.4	10.2	13.6	81.3	108.4	176.2	240.6	376.1
67.5°	0.0	0.0	3.4	6.8	10.2	20.3	37.3	64.4	128.8	213.5
70°	0.0	0.0	3.4	6.8	10.2	16.9	27.1	40.7	57.6	115.2
72.5°	0.0	0.0	3.4	3.4	6.8	16.9	20.3	27.1	40.7	57.6
75°	0.0	0.0	3.4	3.4	10.2	20.3	16.9	20.3	27.1	37.3
77.5°	0.0	0.0	3.4	6.8	10.2	20.3	16.9	20.3	20.3	23.7
80°	0.0	0.0	3.4	6.8	13.6	23.7	20.3	20.3	16.9	16.9
82.5°	0.0	0.0	3.4	10.2	13.6	30.5	30.5	27.1	13.6	10.2
85°	0.0	0.0	6.8	13.6	20.3	33.9	33.9	27.1	10.2	6.8
87.5°	0.0	0.0	6.8	10.2	16.9	23.7	33.9	27.1	10.2	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638176

CATALOG NUMBER: IFLD-M-SA4D-740-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18311.9	0°	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9	18311.9
18254.3	2.5°	18345.8	18325.5	18393.3	18420.4	18457.7	18315.3	18227.2	18230.6	18068.0
18047.6	5°	18156.1	18159.5	18247.6	18240.8	18278.1	18200.1	18166.2	18108.6	17966.3
17786.7	7.5°	17915.5	17885.0	17969.7	18034.1	17939.2	17993.4	17915.5	17942.6	17857.9
17556.3	10°	17729.1	17658.0	17735.9	17779.9	17783.3	17729.1	17654.6	17583.4	17552.9
17197.1	12.5°	17315.7	17224.2	17356.4	17417.4	17407.2	17302.1	17217.4	17234.4	17136.1
16566.8	15°	16746.4	16749.8	16844.7	16902.3	16848.1	16824.4	16831.1	16790.5	16705.8
15696.0	17.5°	15875.6	15926.4	16177.1	16316.1	16346.6	16299.1	16275.4	16228.0	16143.3
14306.6	20°	14425.2	14730.2	15177.5	15607.9	15692.6	15679.0	15594.3	15574.0	15526.5
12930.9	22.5°	13151.1	13378.2	13896.6	14567.6	14913.2	14947.1	14845.4	14814.9	14764.1
11700.8	25°	11833.0	12076.9	12544.6	13273.1	13988.1	14133.8	14116.9	14025.4	13971.2
10609.7	27.5°	10721.5	10965.5	11389.1	12046.4	12812.3	13279.9	13323.9	13178.2	13174.8
9637.2	30°	9718.5	10054.0	10375.9	10911.3	11653.4	12354.8	12429.4	12327.7	12337.9
8746.0	32.5°	8932.3	9210.2	9484.7	9843.9	10460.6	11277.2	11568.7	11473.8	11436.5
8003.9	35°	8129.2	8319.0	8600.2	8928.9	9349.1	10159.0	10663.9	10592.7	10555.5
7000.8	37.5°	7214.3	7539.6	7742.9	8112.3	8441.0	9084.8	9796.4	9786.3	9708.3
6146.9	40°	6275.7	6617.9	6926.3	7299.0	7553.2	8064.8	8854.4	8851.0	8861.2
5262.5	42.5°	5425.1	5740.3	6113.0	6519.7	6763.6	7136.4	7983.5	8031.0	8088.6
4533.9	45°	4655.9	4940.6	5286.2	5780.9	6075.7	6289.2	7041.5	7258.4	7255.0
3883.3	47.5°	3964.7	4232.4	4523.8	5004.9	5381.1	5574.2	6197.7	6506.1	6485.8
3185.3	50°	3327.6	3564.8	3869.8	4218.8	4723.7	4893.1	5357.4	5764.0	5733.5
2538.1	52.5°	2677.0	3005.7	3263.2	3581.7	4113.8	4279.8	4639.0	5035.4	5011.7
1904.4	55°	2087.4	2405.9	2717.7	2992.1	3439.4	3686.8	3944.3	4351.0	4344.2
1491.0	57.5°	1579.1	1928.1	2222.9	2483.8	2839.6	3144.6	3351.3	3720.7	3768.1
1020.0	60°	1169.1	1436.8	1755.3	2046.7	2328.0	2643.1	2782.0	3144.6	3164.9
698.0	62.5°	796.3	1091.1	1402.9	1667.2	1877.3	2202.6	2328.0	2626.2	2663.4
447.3	65°	552.3	742.1	1097.9	1287.7	1545.2	1823.1	1948.4	2185.6	2260.2
257.5	67.5°	366.0	528.6	857.3	1030.1	1284.3	1474.0	1633.3	1826.5	1907.8
162.7	70°	199.9	389.7	613.3	813.3	1033.5	1216.5	1372.4	1528.3	1599.4
74.5	72.5°	135.5	260.9	427.0	643.8	833.6	1013.2	1152.1	1267.3	1270.7
44.1	75°	67.8	176.2	325.3	498.1	650.6	826.8	952.2	1020.0	938.6
27.1	77.5°	40.7	128.8	264.3	399.9	528.6	667.6	738.7	776.0	643.8
20.3	80°	23.7	91.5	206.7	318.5	366.0	491.3	559.1	569.3	430.4
13.6	82.5°	16.9	67.8	162.7	233.8	223.6	345.6	420.2	406.6	274.5
10.2	85°	10.2	47.4	101.7	145.7	135.5	227.0	244.0	250.8	159.3
6.8	87.5°	6.8	27.1	54.2	77.9	64.4	98.3	98.3	118.6	77.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18311.9
17857.9
17932.4
17715.6
17417.4
17051.4
16621.0
16106.0
15418.1
14750.5
13913.6
13168.1
12287.0
11439.9
10504.6
9772.7
8861.2
8058.1
7261.8
6492.5
5760.6
5062.6
4361.1
3747.8
3195.4
2670.2
2243.2
1897.6
1572.3
1240.2
877.6
620.1
403.2
254.1
145.7
67.8
0.0

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