

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: P638418

Luminaire Tested: **IFLD-L-SA8D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40525.2 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

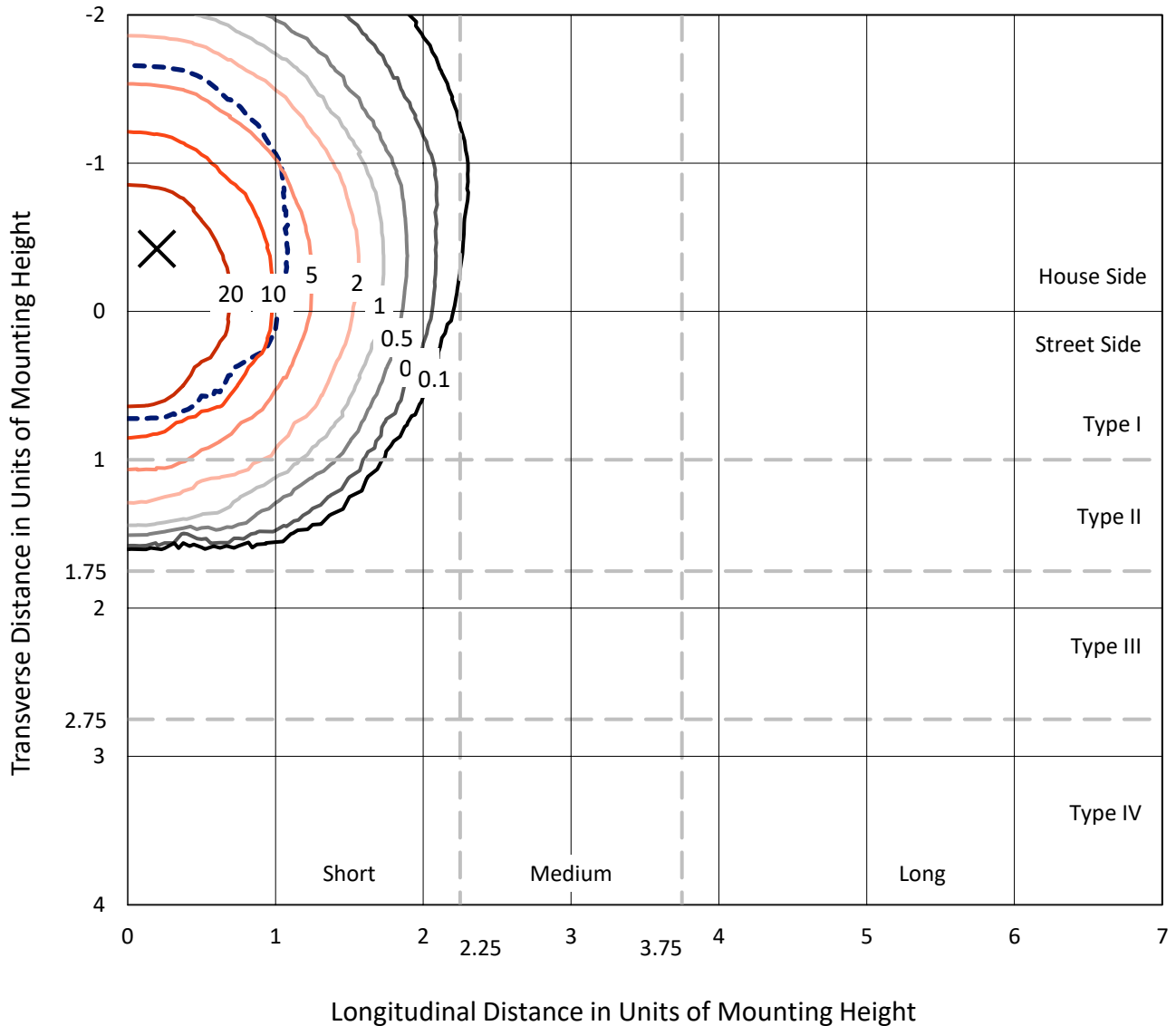
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

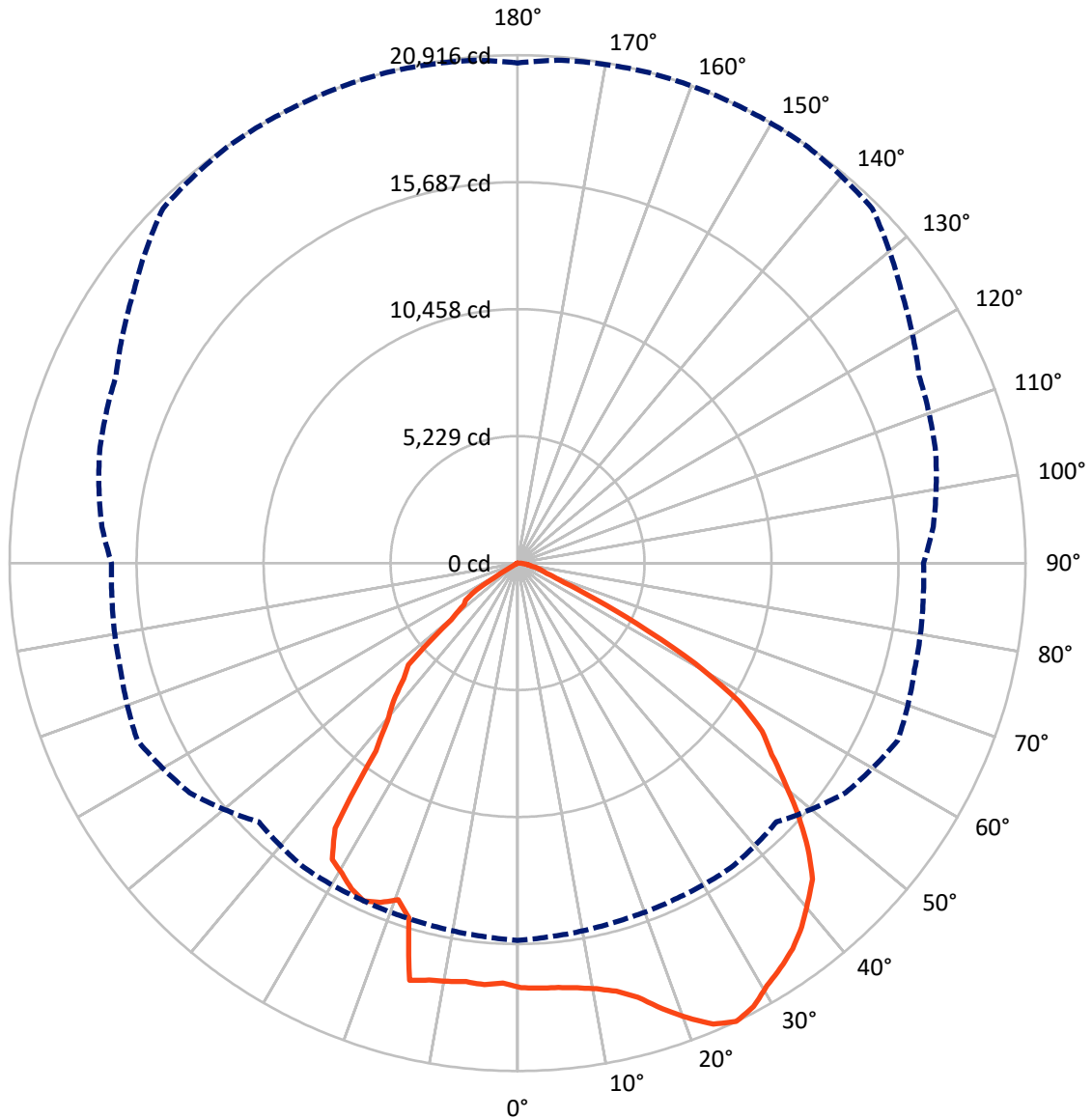
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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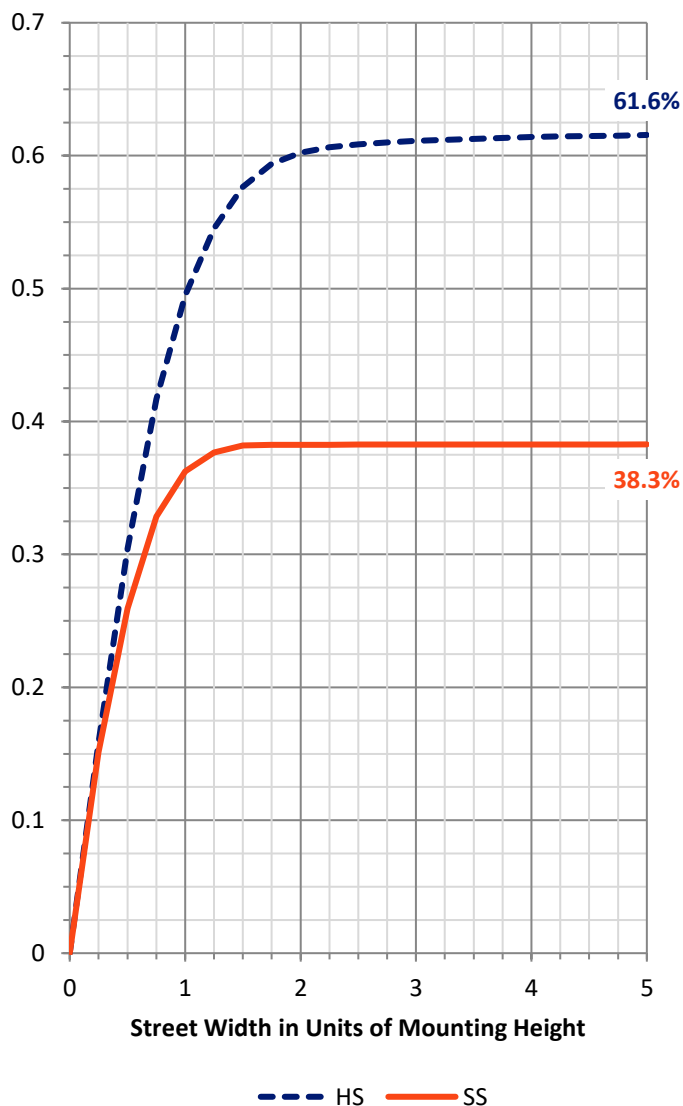
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25089.2	0.0	25089.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	15435.9	0.0	15435.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	40525.2	0.0	40525.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1677.5	4.1
10°-20°	5122.3	12.6
20°-30°	8098.0	20.0
30°-40°	9147.4	22.6
40°-50°	8566.8	21.1
50°-60°	5906.2	14.6
60°-70°	1586.8	3.9
70°-80°	330.7	0.8
80°-90°	89.5	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°	40525.2	100.0
0°-180°	40525.2	100.0



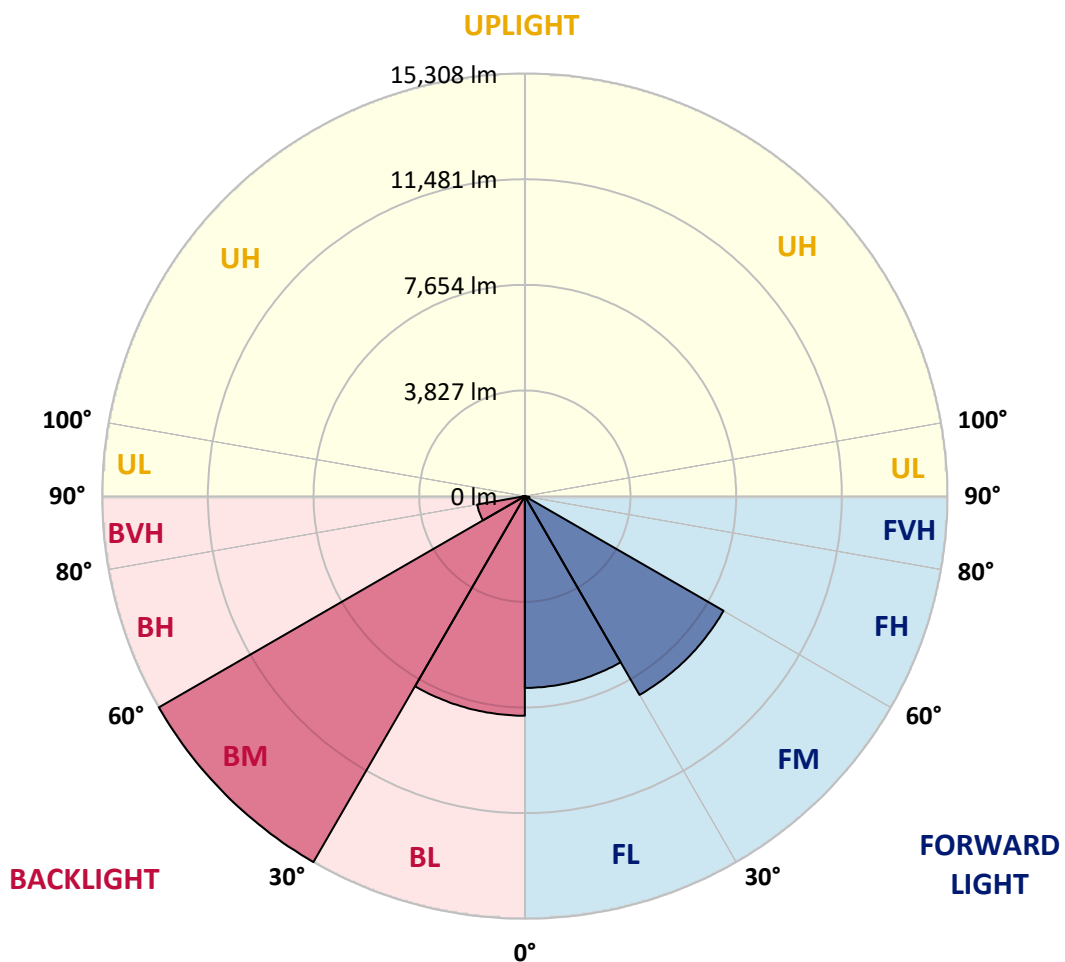
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6944.7	17.1			
FM (30°-60°)	8312.6	20.5			
FH (60°-80°)	166.6	0.4			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	7953.1	19.6	B5		
BM (30°-60°)	15307.7	37.8	B5		
BH (60°-80°)	1750.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	77.5	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9
2.5°	17563.3	17450.1	17342.9	17307.2	17456.1	17616.9	17515.7	17521.6	17485.9	17551.4
5°	17694.3	17539.5	17468.0	17414.4	17438.2	17605.0	17462.1	17515.7	17456.1	17533.5
7.5°	17646.7	17539.5	17468.0	17366.8	17444.2	17640.7	17503.7	17509.7	17479.9	17551.4
10°	17616.9	17539.5	17450.1	17462.1	17551.4	17718.2	17611.0	17670.5	17628.8	17670.5
12.5°	17688.4	17605.0	17557.3	17557.3	17634.8	17825.4	17771.8	17825.4	17807.5	17843.2
15°	17015.4	17092.8	17545.4	17747.9	17902.8	18093.4	18069.5	18123.1	18135.1	18188.7
17.5°	14353.2	14275.8	14240.0	15282.3	18051.7	18641.3	18623.4	18617.5	18557.9	18516.2
20°	14704.6	14674.8	14633.1	14710.5	15020.2	18927.2	19046.3	18313.7	18099.3	18081.4
22.5°	15264.4	15216.8	15061.9	15067.9	15163.2	16455.5	18456.7	17789.6	17718.2	17676.5
25°	15538.4	15443.1	15318.0	15282.3	15312.1	15073.8	16485.3	17277.4	16926.0	16765.2
27.5°	15056.0	15061.9	14960.7	15056.0	14942.8	13870.8	13269.3	16276.9	16265.0	16193.5
30°	14692.7	14674.8	14555.7	14674.8	13894.6	12697.5	12441.4	15181.0	15056.0	14960.7
32.5°	13579.0	13590.9	13936.3	14400.8	13120.4	12173.4	11399.2	13561.1	14746.3	14692.7
35°	9713.7	9737.5	10964.4	13257.3	11947.1	11131.2	11071.6	11720.8	14257.9	14281.7
37.5°	9350.4	9350.4	9320.6	9695.8	11024.0	10708.3	10827.4	10761.9	13060.8	13120.4
40°	9088.4	9034.8	8993.1	8403.5	7665.0	10410.5	10493.9	10196.1	12346.1	12358.0
42.5°	8772.7	8713.2	8725.1	7635.2	6860.9	9672.0	9439.8	9040.7	11155.0	11166.9
45°	8195.0	8296.3	8367.7	6682.3	6622.7	6908.6	8707.2	8457.1	10351.0	10571.3
47.5°	4169.0	4258.3	6533.4	6146.3	6283.2	6140.3	7355.3	7361.2	8611.9	9344.5
50°	3781.9	3758.0	3764.0	3585.3	5800.8	4967.0	5318.4	6747.8	6896.7	7944.9
52.5°	3525.8	3519.8	3156.5	2805.1	3644.9	4371.5	3859.3	4883.7	5127.8	6729.9
55°	2608.6	2799.2	2489.5	2638.4	2281.0	3501.9	3484.1	4407.2	4490.6	5395.8
57.5°	23.8	29.8	71.5	2007.1	1578.3	1751.0	2406.1	3007.6	3156.5	4204.7
60°	6.0	11.9	29.8	59.6	1024.4	1078.0	1608.0	1739.1	1959.4	2507.3
62.5°	0.0	0.0	11.9	29.8	53.6	440.7	512.2	559.8	863.6	1280.5
65°	0.0	0.0	6.0	17.9	29.8	71.5	125.1	262.0	375.2	464.5
67.5°	0.0	0.0	6.0	11.9	23.8	35.7	71.5	101.2	160.8	274.0
70°	0.0	0.0	6.0	11.9	17.9	29.8	47.6	71.5	95.3	137.0
72.5°	0.0	0.0	6.0	11.9	11.9	35.7	35.7	53.6	71.5	89.3
75°	0.0	0.0	6.0	6.0	11.9	23.8	35.7	41.7	47.6	71.5
77.5°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	47.6	41.7	41.7
80°	0.0	0.0	6.0	17.9	17.9	29.8	35.7	47.6	29.8	29.8
82.5°	0.0	0.0	6.0	23.8	17.9	59.6	59.6	65.5	23.8	23.8
85°	0.0	0.0	17.9	11.9	35.7	59.6	53.6	35.7	29.8	17.9
87.5°	0.0	0.0	6.0	6.0	11.9	17.9	41.7	35.7	11.9	11.9
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°
17485.9	0°	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9	17485.9
17378.7	2.5°	17616.9	17539.5	17700.3	17682.4	17605.0	17569.3	17527.6	17491.8	17229.8
17390.6	5°	17622.9	17503.7	17700.3	17664.6	17652.6	17593.1	17557.3	17611.0	17372.7
17438.2	7.5°	17622.9	17503.7	17718.2	17730.1	17712.2	17664.6	17658.6	17694.3	17497.8
17521.6	10°	17742.0	17694.3	17873.0	17890.9	17867.0	17855.1	17825.4	17801.5	17593.1
17807.5	12.5°	17992.1	17896.8	18099.3	18152.9	18135.1	18164.8	18093.4	18129.1	17914.7
18099.3	15°	18295.9	18301.8	18456.7	18575.8	18563.9	18659.2	18551.9	18647.2	18492.4
18432.8	17.5°	18760.4	18825.9	19046.3	19224.9	19290.5	19361.9	19290.5	19320.2	19099.9
18063.6	20°	18272.0	18516.2	19576.3	19903.9	20040.9	20106.4	19987.3	20023.0	19802.6
17611.0	22.5°	17831.3	18147.0	19088.0	20112.3	20535.2	20666.2	20624.5	20618.6	20535.2
16717.6	25°	17182.1	17819.4	18242.3	19326.2	20654.3	20892.5	20916.4	20910.4	20785.3
16169.7	27.5°	16384.1	16527.0	17622.9	18283.9	19820.5	20725.8	20690.0	20517.3	20350.6
15032.1	30°	15365.7	16014.8	16509.1	17563.3	18742.5	20213.6	20213.6	20082.6	19909.8
14627.2	32.5°	14847.5	15687.3	16145.9	16527.0	17533.5	19641.8	19880.1	19743.1	19606.1
14311.5	35°	14573.6	14698.6	15770.6	16116.1	16967.7	18540.0	19504.9	19367.9	19266.6
13471.8	37.5°	13972.0	14263.9	14764.1	15687.3	15949.3	17640.7	19004.6	18933.1	18814.0
12381.9	40°	12632.0	13412.2	14180.5	15056.0	15329.9	16485.3	18397.1	18426.9	18266.1
11220.5	42.5°	11839.9	12370.0	13573.0	14162.6	14901.1	15740.9	17807.5	17855.1	17742.0
10630.9	45°	10910.8	11500.4	12346.1	13418.2	14424.7	14716.5	16765.2	17265.5	17170.2
9457.6	47.5°	10059.1	10535.6	11571.9	12655.8	13769.5	13727.8	15568.2	16509.1	16378.1
8558.3	50°	8850.1	9683.9	10172.3	11166.9	12828.5	12941.7	14293.6	15621.8	15514.6
7271.9	52.5°	7462.5	8510.7	9445.7	10356.9	11875.6	12143.6	13108.5	14716.5	14645.0
5556.7	55°	6521.5	7283.8	8338.0	9070.5	10720.2	11434.9	12221.1	13852.9	13817.2
4568.0	57.5°	4639.5	6110.5	6980.1	8004.4	8874.0	10166.3	10750.0	12096.0	11762.5
2531.2	60°	3144.6	3835.5	4895.6	5997.4	6581.0	7873.4	8415.4	9493.4	9404.0
1512.7	62.5°	1661.6	2298.9	3055.3	3609.1	4032.0	5288.6	5515.0	6676.3	6646.5
607.5	65°	732.5	970.8	1655.7	1941.6	2376.3	2960.0	3156.5	3573.4	3472.2
297.8	67.5°	381.2	577.7	935.0	1149.4	1447.2	1667.6	1828.4	1959.4	2042.8
196.5	70°	232.3	422.9	577.7	798.1	994.6	1173.3	1298.3	1477.0	1584.2
101.2	72.5°	172.7	268.0	399.0	613.4	720.6	929.1	1054.2	1185.2	1280.5
83.4	75°	95.3	178.7	321.6	482.4	577.7	756.4	869.5	958.9	988.6
47.6	77.5°	59.6	137.0	268.0	375.2	452.6	613.4	583.7	667.0	738.5
35.7	80°	41.7	101.2	208.4	309.7	315.7	393.1	464.5	536.0	583.7
23.8	82.5°	29.8	83.4	154.8	238.2	208.4	303.7	363.3	416.9	303.7
17.9	85°	23.8	59.6	77.4	142.9	119.1	214.4	184.6	178.7	119.1
11.9	87.5°	17.9	29.8	53.6	65.5	47.6	47.6	59.6	71.5	59.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17485.9
17051.1
17170.2
17271.5
17420.4
17724.1
18236.3
18909.3
19647.8
20267.2
20594.7
20219.5
19844.3
19492.9
19123.7
18694.9
18230.3
17730.1
17182.1
16473.4
15532.4
14692.7
13858.9
11726.7
9410.0
6652.5
3430.5
2042.8
1590.2
1298.3
970.8
750.4
589.6
220.4
119.1
59.6
0.0

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