

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: P636934

Luminaire Tested: **IFLD-L-SA7D-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636934
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23872.1 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

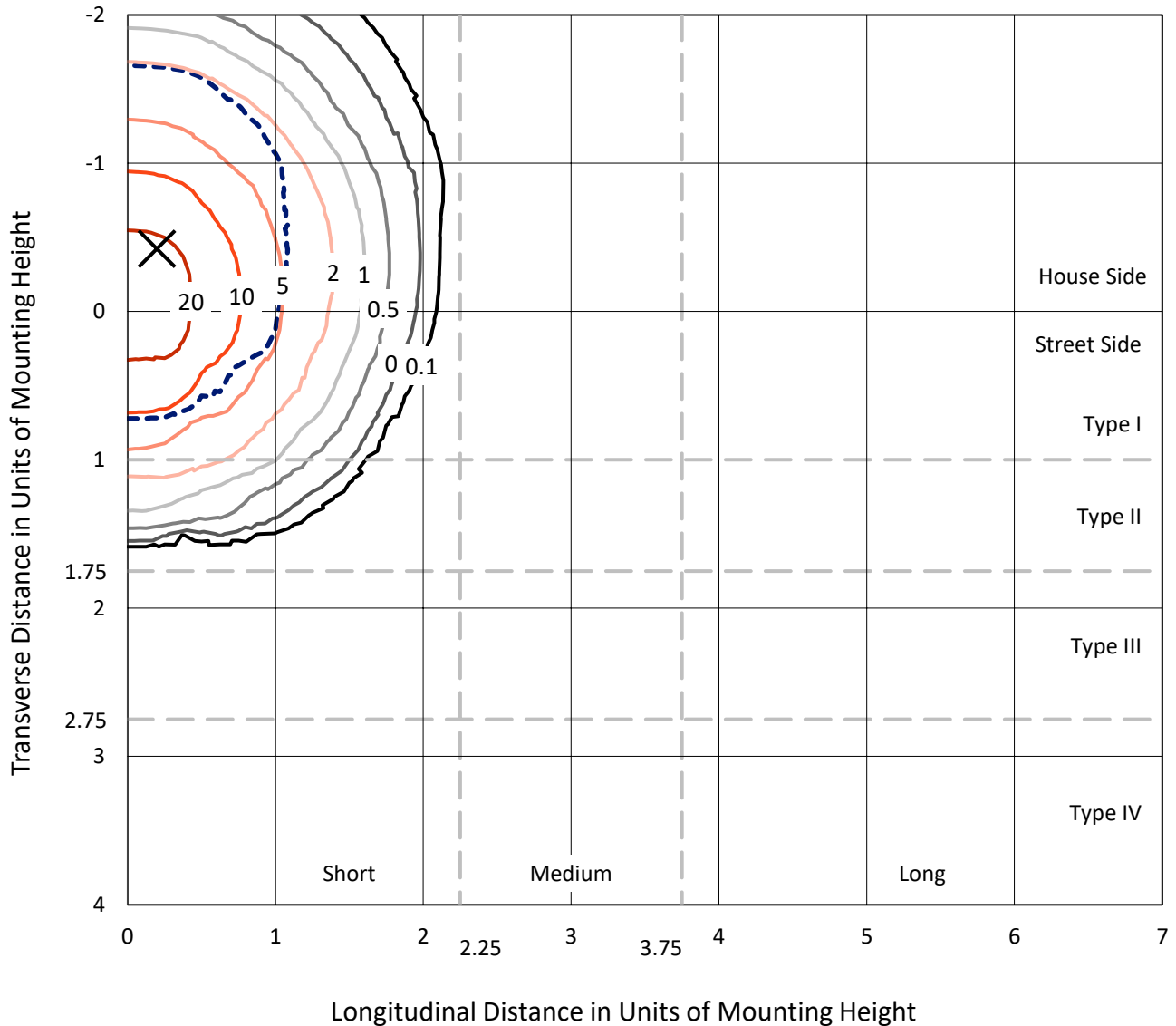
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

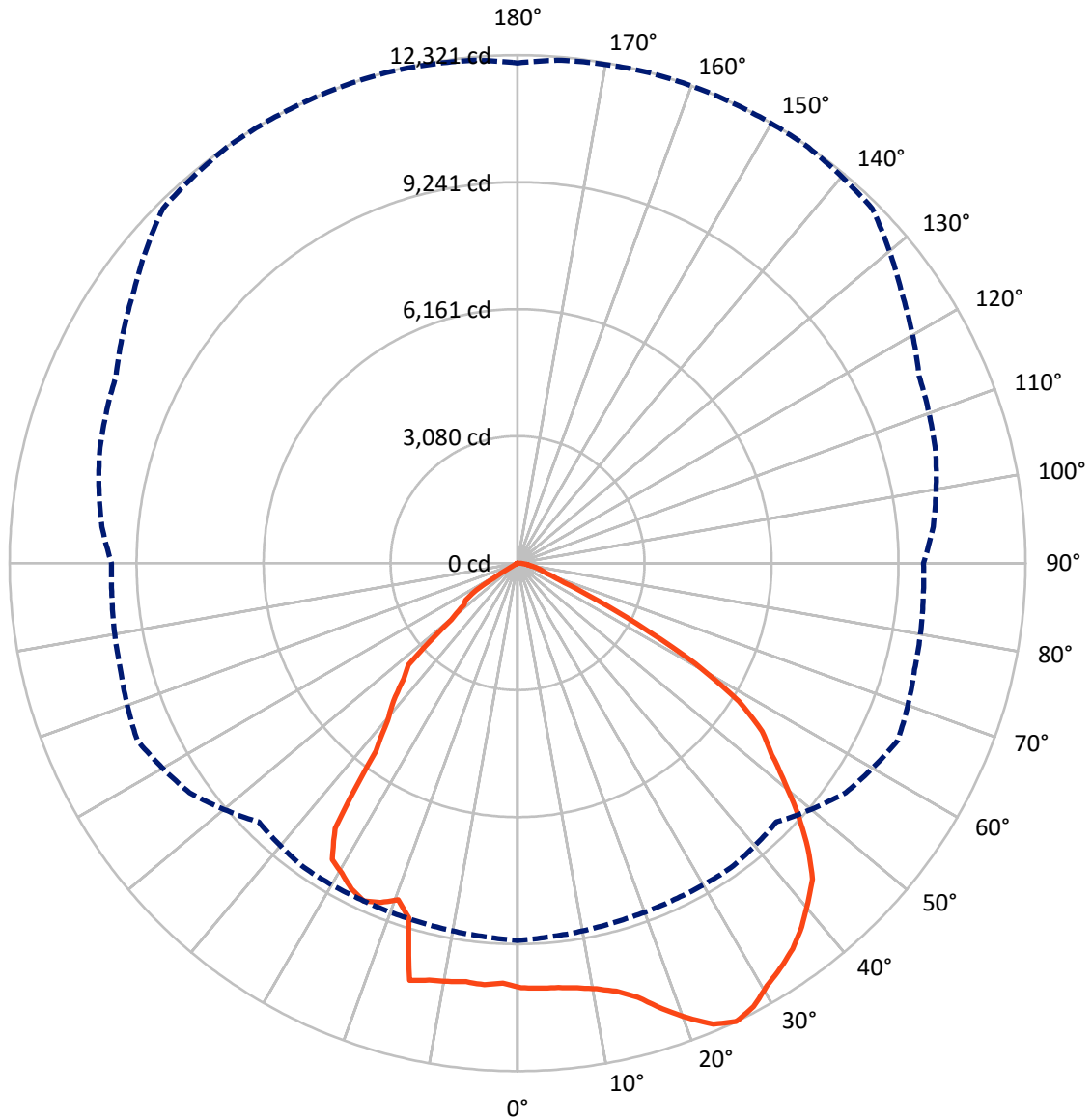
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.8 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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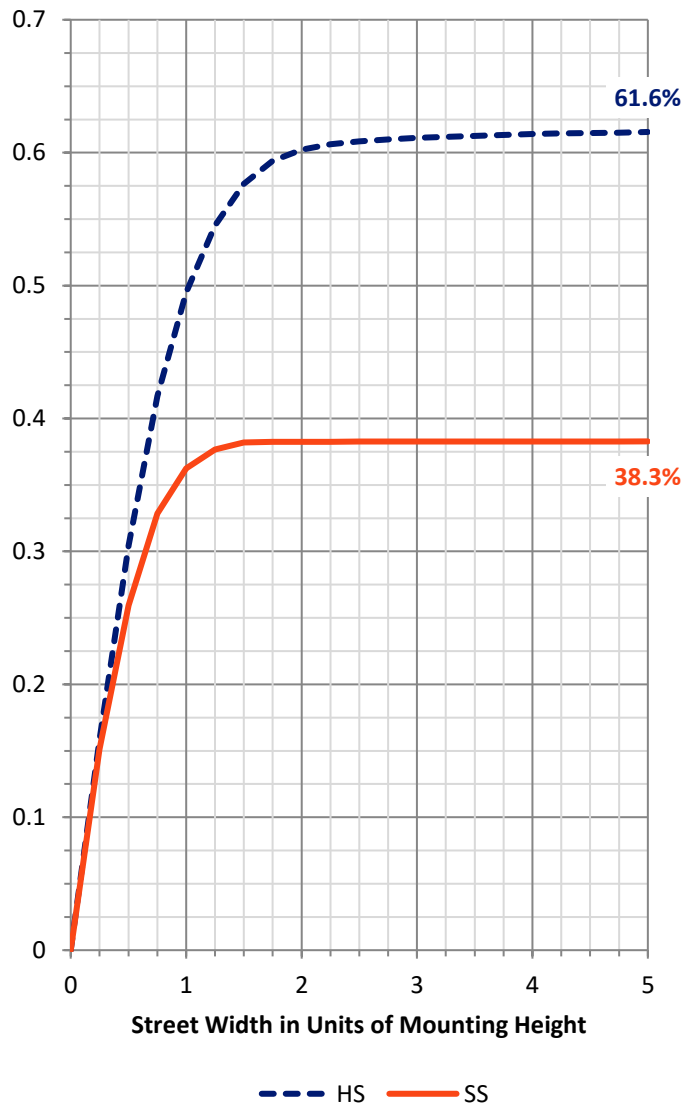
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14779.3	0.0	14779.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9092.8	0.0	9092.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	23872.1	0.0	23872.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.2	4.1
10°-20°	3017.4	12.6
20°-30°	4770.3	20.0
30°-40°	5388.5	22.6
40°-50°	5046.4	21.1
50°-60°	3479.1	14.6
60°-70°	934.7	3.9
70°-80°	194.8	0.8
80°-90°	52.7	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°	23872.1	100.0
0°-180°	23872.1	100.0



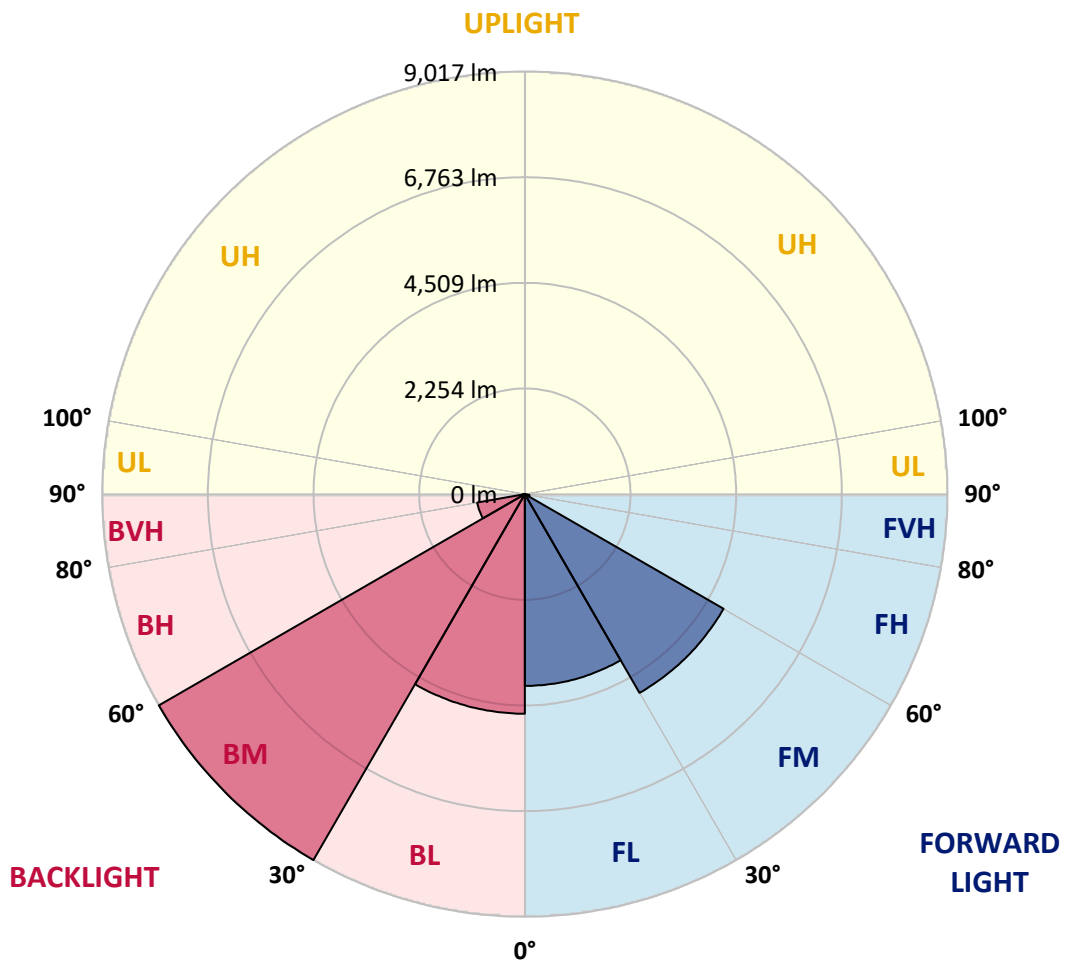
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.9	17.1			
FM (30°-60°)	4896.7	20.5			
FH (60°-80°)	98.1	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	4684.9	19.6	B4/5000		
BM (30°-60°)	9017.3	37.8	B5		
BH (60°-80°)	1031.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.6	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°	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4
2.5°	10346.0	10279.3	10216.2	10195.1	10282.8	10377.6	10317.9	10321.4	10300.4	10339.0
5°	10423.2	10332.0	10289.9	10258.3	10272.3	10370.6	10286.4	10317.9	10282.8	10328.5
7.5°	10395.1	10332.0	10289.9	10230.2	10275.8	10391.6	10310.9	10314.4	10296.9	10339.0
10°	10377.6	10332.0	10279.3	10286.4	10339.0	10437.2	10374.1	10409.1	10384.6	10409.1
12.5°	10419.7	10370.6	10342.5	10342.5	10388.1	10500.4	10468.8	10500.4	10489.8	10510.9
15°	10023.2	10068.8	10335.5	10454.8	10546.0	10658.2	10644.2	10675.8	10682.8	10714.4
17.5°	8455.0	8409.4	8388.4	9002.3	10633.7	10981.0	10970.5	10967.0	10931.9	10907.3
20°	8662.0	8644.5	8619.9	8665.5	8847.9	11149.4	11219.6	10788.0	10661.7	10651.2
22.5°	8991.8	8963.7	8872.5	8876.0	8932.1	9693.4	10872.2	10479.3	10437.2	10412.7
25°	9153.2	9097.0	9023.4	9002.3	9019.9	8879.5	9711.0	10177.6	9970.6	9875.9
27.5°	8869.0	8872.5	8812.9	8869.0	8802.3	8170.8	7816.5	9588.2	9581.2	9539.1
30°	8655.0	8644.5	8574.3	8644.5	8184.9	7479.7	7328.9	8942.7	8869.0	8812.9
32.5°	7998.9	8006.0	8209.4	8483.1	7728.8	7171.0	6714.9	7988.4	8686.6	8655.0
35°	5722.0	5736.1	6458.8	7809.5	7037.7	6557.0	6521.9	6904.3	8398.9	8412.9
37.5°	5508.0	5508.0	5490.5	5711.5	6493.9	6307.9	6378.1	6339.5	7693.7	7728.8
40°	5353.7	5322.1	5297.5	4950.2	4515.2	6132.5	6181.6	6006.2	7272.7	7279.7
42.5°	5167.7	5132.7	5139.7	4497.6	4041.6	5697.5	5560.7	5325.6	6571.1	6578.1
45°	4827.4	4887.1	4929.2	3936.3	3901.2	4069.6	5129.1	4981.8	6097.4	6227.2
47.5°	2455.8	2508.4	3848.6	3620.6	3701.3	3617.1	4332.8	4336.3	5073.0	5504.5
50°	2227.8	2213.7	2217.2	2112.0	3417.1	2925.9	3132.9	3974.9	4062.6	4680.1
52.5°	2076.9	2073.4	1859.4	1652.4	2147.1	2575.1	2273.4	2876.8	3020.7	3964.4
55°	1536.6	1648.9	1466.5	1554.2	1343.7	2062.9	2052.4	2596.1	2645.3	3178.5
57.5°	14.0	17.5	42.1	1182.3	929.7	1031.4	1417.4	1771.7	1859.4	2476.9
60°	3.5	7.0	17.5	35.1	603.4	635.0	947.2	1024.4	1154.2	1477.0
62.5°	0.0	0.0	7.0	17.5	31.6	259.6	301.7	329.8	508.7	754.3
65°	0.0	0.0	3.5	10.5	17.5	42.1	73.7	154.4	221.0	273.6
67.5°	0.0	0.0	3.5	7.0	14.0	21.0	42.1	59.6	94.7	161.4
70°	0.0	0.0	3.5	7.0	10.5	17.5	28.1	42.1	56.1	80.7
72.5°	0.0	0.0	3.5	7.0	7.0	21.0	21.0	31.6	42.1	52.6
75°	0.0	0.0	3.5	3.5	7.0	14.0	21.0	24.6	28.1	42.1
77.5°	0.0	0.0	3.5	7.0	10.5	14.0	17.5	28.1	24.6	24.6
80°	0.0	0.0	3.5	10.5	10.5	17.5	21.0	28.1	17.5	17.5
82.5°	0.0	0.0	3.5	14.0	10.5	35.1	35.1	38.6	14.0	14.0
85°	0.0	0.0	10.5	7.0	21.0	35.1	31.6	21.0	17.5	10.5
87.5°	0.0	0.0	3.5	3.5	7.0	10.5	24.6	21.0	7.0	7.0
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°
10300.4	0°	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4	10300.4
10237.2	2.5°	10377.6	10332.0	10426.7	10416.2	10370.6	10349.5	10324.9	10303.9	10149.5
10244.3	5°	10381.1	10310.9	10426.7	10405.6	10398.6	10363.5	10342.5	10374.1	10233.7
10272.3	7.5°	10381.1	10310.9	10437.2	10444.2	10433.7	10405.6	10402.1	10423.2	10307.4
10321.4	10°	10451.2	10423.2	10528.4	10539.0	10524.9	10517.9	10500.4	10486.3	10363.5
10489.8	12.5°	10598.6	10542.5	10661.7	10693.3	10682.8	10700.3	10658.2	10679.3	10553.0
10661.7	15°	10777.5	10781.0	10872.2	10942.4	10935.4	10991.5	10928.4	10984.5	10893.3
10858.2	17.5°	11051.2	11089.8	11219.6	11324.8	11363.4	11405.5	11363.4	11380.9	11251.1
10640.7	20°	10763.5	10907.3	11531.8	11724.8	11805.5	11844.0	11773.9	11794.9	11665.1
10374.1	22.5°	10503.9	10689.8	11244.1	11847.5	12096.6	12173.8	12149.3	12145.8	12096.6
9847.8	25°	10121.5	10496.9	10745.9	11384.5	12166.8	12307.1	12321.2	12317.7	12244.0
9525.1	27.5°	9651.4	9735.5	10381.1	10770.5	11675.6	12208.9	12187.9	12086.1	11987.9
8855.0	30°	9051.4	9433.8	9725.0	10346.0	11040.6	11907.2	11907.2	11830.0	11728.3
8616.4	32.5°	8746.2	9240.9	9511.0	9735.5	10328.5	11570.4	11710.7	11630.0	11549.3
8430.5	35°	8584.8	8658.5	9290.0	9493.5	9995.2	10921.4	11489.7	11409.0	11349.4
7935.8	37.5°	8230.5	8402.4	8697.1	9240.9	9395.2	10391.6	11195.0	11152.9	11082.7
7293.8	40°	7441.1	7900.7	8353.3	8869.0	9030.4	9711.0	10837.2	10854.7	10760.0
6609.6	42.5°	6974.5	7286.8	7995.4	8342.8	8777.8	9272.5	10489.8	10517.9	10451.2
6262.3	45°	6427.2	6774.5	7272.7	7904.2	8497.1	8669.0	9875.9	10170.6	10114.4
5571.2	47.5°	5925.5	6206.2	6816.6	7455.2	8111.2	8086.6	9170.7	9725.0	9647.8
5041.4	50°	5213.3	5704.5	5992.2	6578.1	7556.9	7623.5	8419.9	9202.3	9139.1
4283.6	52.5°	4395.9	5013.4	5564.2	6100.9	6995.6	7153.4	7721.8	8669.0	8626.9
3273.2	55°	3841.6	4290.7	4911.6	5343.2	6315.0	6735.9	7199.0	8160.3	8139.3
2690.9	57.5°	2733.0	3599.5	4111.7	4715.2	5227.4	5988.7	6332.5	7125.4	6928.9
1491.0	60°	1852.4	2259.3	2883.8	3532.9	3876.7	4638.0	4957.2	5592.2	5539.6
891.1	62.5°	978.8	1354.2	1799.8	2126.0	2375.1	3115.4	3248.7	3932.8	3915.3
357.8	65°	431.5	571.9	975.3	1143.7	1399.8	1743.6	1859.4	2105.0	2045.3
175.4	67.5°	224.5	340.3	550.8	677.1	852.5	982.3	1077.0	1154.2	1203.3
115.8	70°	136.8	249.1	340.3	470.1	585.9	691.1	764.8	870.1	933.2
59.6	72.5°	101.7	157.9	235.1	361.4	424.5	547.3	621.0	698.2	754.3
49.1	75°	56.1	105.2	189.4	284.2	340.3	445.6	512.2	564.8	582.4
28.1	77.5°	35.1	80.7	157.9	221.0	266.6	361.4	343.8	392.9	435.0
21.0	80°	24.6	59.6	122.8	182.4	185.9	231.5	273.6	315.7	343.8
14.0	82.5°	17.5	49.1	91.2	140.3	122.8	178.9	214.0	245.6	178.9
10.5	85°	14.0	35.1	45.6	84.2	70.2	126.3	108.8	105.2	70.2
7.0	87.5°	10.5	17.5	31.6	38.6	28.1	28.1	35.1	42.1	35.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10300.4
10044.3
10114.4
10174.1
10261.8
10440.7
10742.4
11138.9
11573.9
11938.8
12131.7
11910.7
11689.7
11482.7
11265.2
11012.6
10738.9
10444.2
10121.5
9704.0
9149.7
8655.0
8163.8
6907.9
5543.1
3918.8
2020.8
1203.3
936.7
764.8
571.9
442.0
347.3
129.8
70.2
35.1
0.0

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