

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: P638086

Luminaire Tested: **IFLD-M-SA4A-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638086
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11879.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

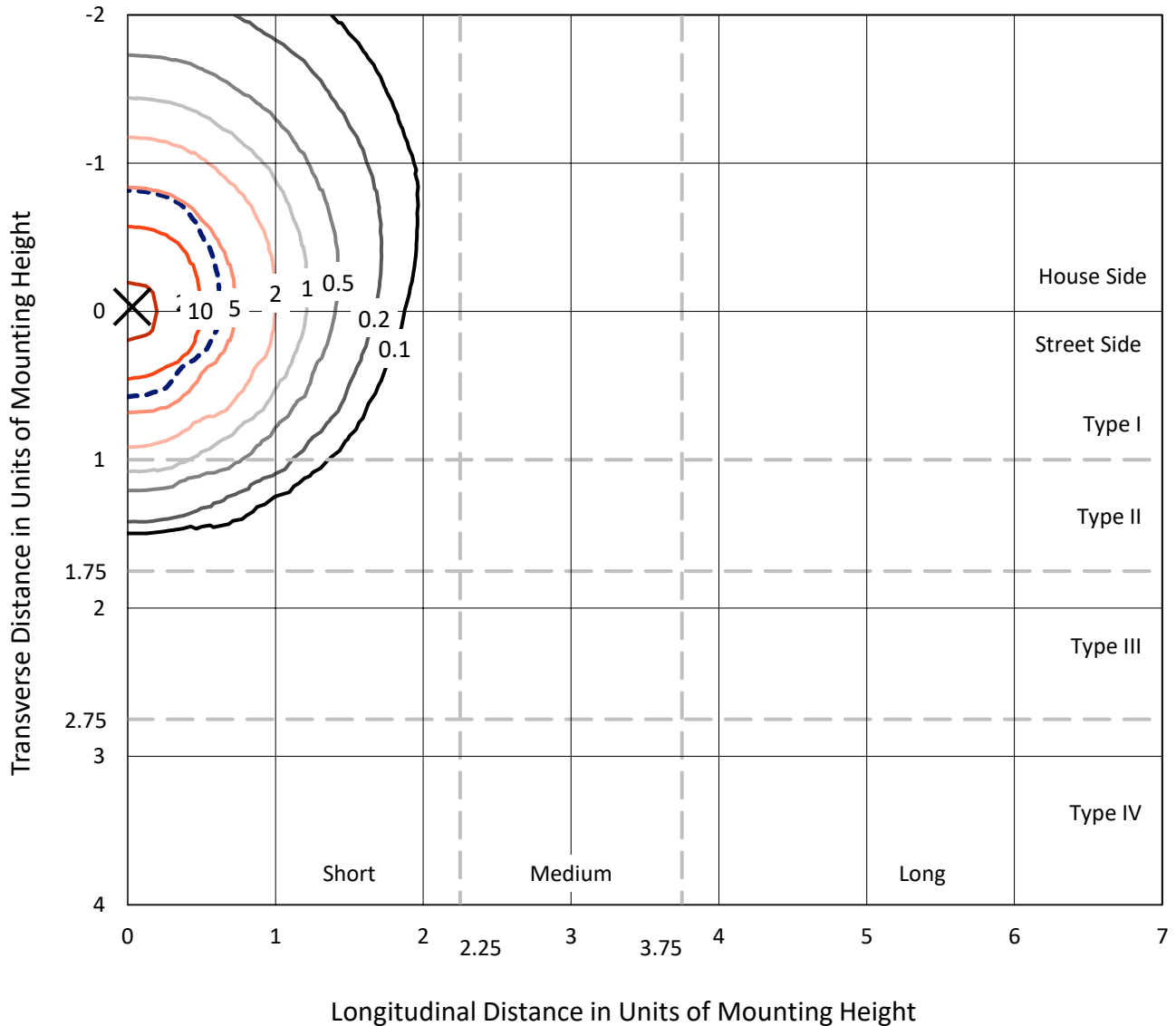
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

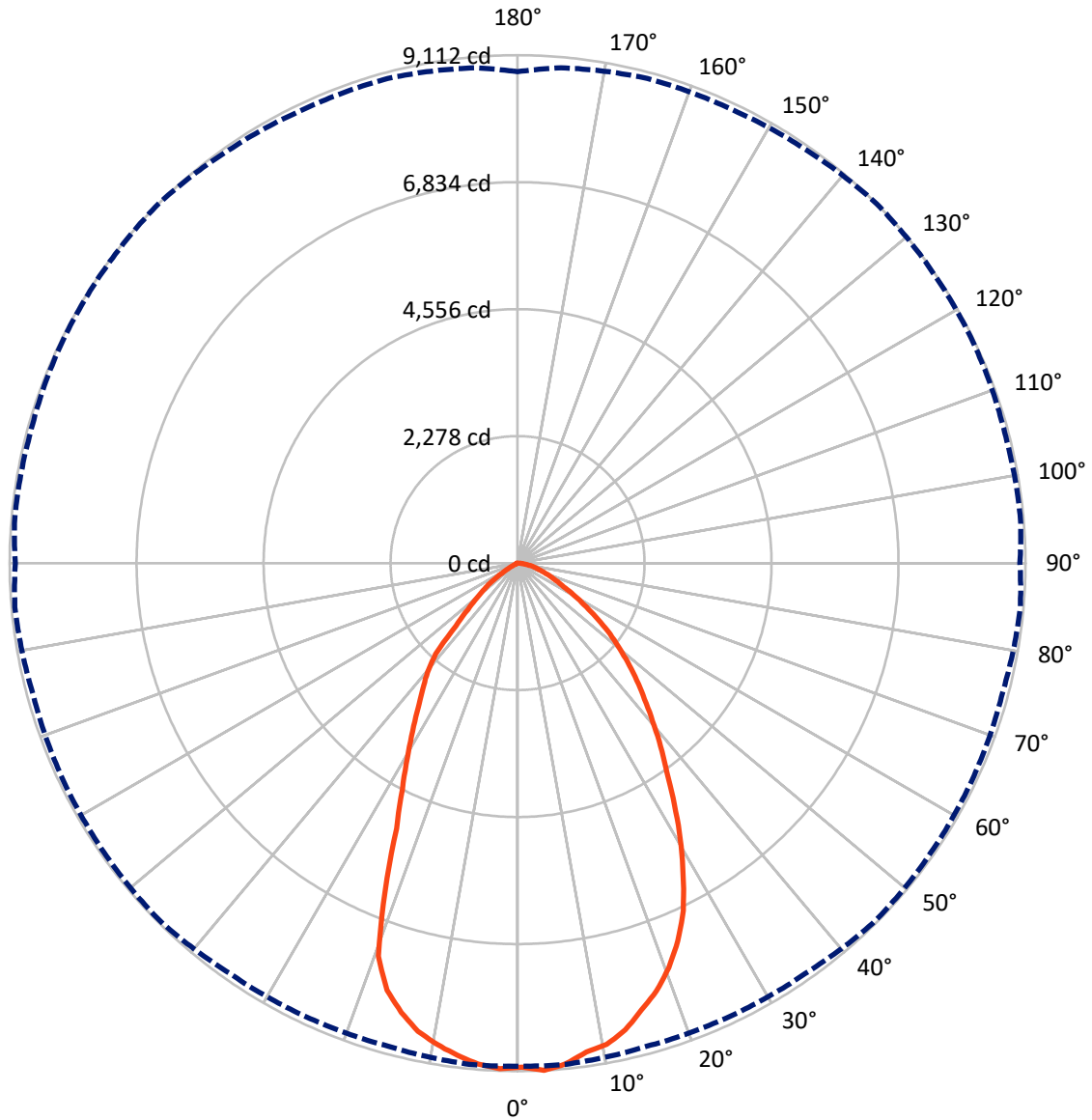
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.6 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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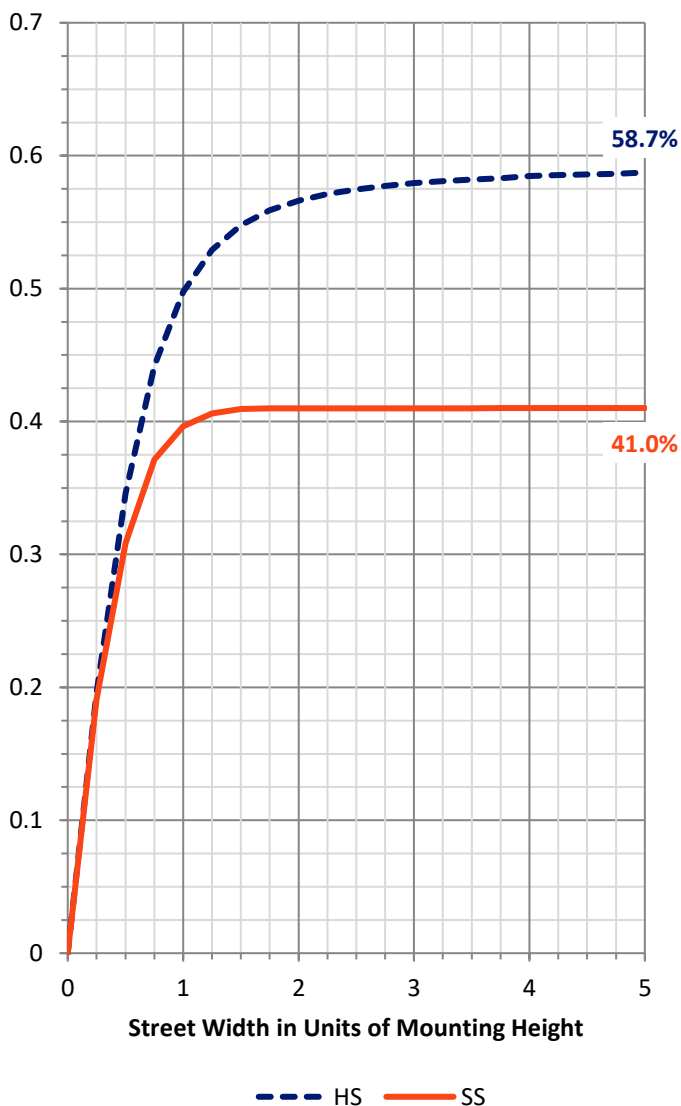
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7035.6	0.0	7035.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4843.8	0.0	4843.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	11879.5	0.0	11879.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.8	7.1
10°-20°	2273.5	19.1
20°-30°	2772.7	23.3
30°-40°	2531.4	21.3
40°-50°	1829.4	15.4
50°-60°	998.9	8.4
60°-70°	413.0	3.5
70°-80°	167.3	1.4
80°-90°	45.5	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°	11879.5	100.0
0°-180°	11879.5	100.0



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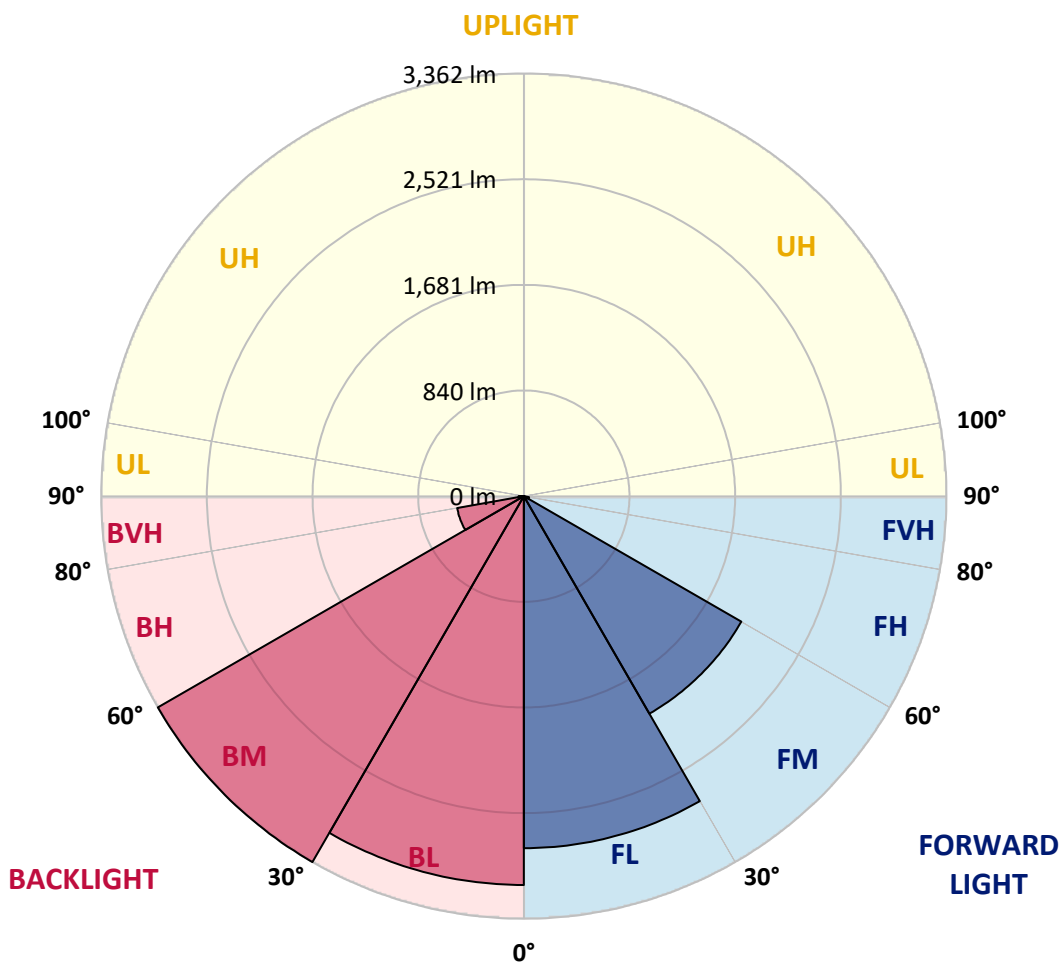
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2800.4	23.6			
FM (30°-60°)	1997.9	16.8			
FH (60°-80°)	41.9	0.4			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	3093.6	26.0	B4/5000		
BM (30°-60°)	3361.8	28.3	B3/5000		
BH (60°-80°)	538.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	41.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2
2.5°	9023.5	9035.2	8971.7	8978.4	8990.1	9075.4	9053.6	9033.6	9005.1	9053.6
5°	9011.8	9018.5	8951.6	8928.2	8938.2	9015.2	8944.9	8944.9	8938.2	8929.8
7.5°	8921.5	8924.8	8873.0	8831.1	8857.9	8893.0	8841.2	8866.3	8829.5	8857.9
10°	8786.0	8764.2	8702.3	8690.6	8720.7	8754.2	8719.1	8742.5	8709.0	8730.8
12.5°	8586.9	8553.4	8503.3	8488.2	8540.1	8585.2	8556.8	8543.4	8499.9	8553.4
15°	7819.0	7794.0	7907.7	8106.8	8285.8	8324.3	8294.1	8307.5	8217.2	8232.2
17.5°	6435.6	6388.7	6510.9	6982.6	7655.1	8009.8	7983.0	7896.0	7762.2	7792.3
20°	5848.4	5835.0	5821.6	5933.7	6403.8	7479.5	7516.3	7295.4	7104.7	7062.9
22.5°	5517.2	5512.1	5498.8	5523.9	5647.6	6338.5	6760.1	6556.0	6428.9	6417.2
25°	5214.4	5206.0	5165.9	5197.6	5197.6	5237.8	5778.1	5901.9	5789.8	5776.5
27.5°	4906.6	4891.5	4884.8	4899.9	4822.9	4551.9	4689.1	5293.0	5234.4	5237.8
30°	4573.7	4568.6	4550.2	4582.0	4344.5	4008.2	3921.2	4740.9	4752.7	4749.3
32.5°	4078.5	4100.2	4183.9	4219.0	3827.6	3549.9	3404.3	4101.9	4341.1	4336.1
35°	2962.7	2962.7	3235.4	3742.2	3354.1	3145.0	3066.4	3477.9	3934.6	3951.3
37.5°	2435.7	2444.1	2497.6	2728.5	2894.1	2820.5	2797.1	2927.5	3412.7	3439.4
40°	2191.5	2191.5	2191.5	2096.1	2091.1	2541.1	2527.7	2485.9	2947.6	3006.2
42.5°	1969.0	1974.0	1977.3	1736.5	1602.6	2196.5	2166.4	2102.8	2531.1	2599.7
45°	1739.8	1748.2	1758.2	1452.1	1393.5	1580.9	1833.5	1763.2	2119.5	2208.2
47.5°	1062.3	1075.7	1303.2	1231.2	1237.9	1219.5	1495.6	1483.8	1738.1	1863.6
50°	717.7	722.7	744.4	781.2	1062.3	958.6	1058.9	1227.9	1319.9	1510.6
52.5°	602.2	610.6	557.1	506.9	697.6	749.5	739.4	911.7	948.5	1184.4
55°	423.2	450.0	424.9	419.9	396.5	582.2	560.4	700.9	724.4	900.0
57.5°	43.5	50.2	87.0	312.8	259.3	329.6	399.8	513.6	537.0	664.1
60°	3.3	3.3	8.4	43.5	189.0	197.4	276.0	316.2	361.3	463.4
62.5°	0.0	1.7	3.3	6.7	30.1	105.4	138.8	165.6	217.5	299.4
65°	0.0	0.0	1.7	5.0	6.7	40.1	53.5	87.0	118.8	185.7
67.5°	0.0	0.0	1.7	3.3	5.0	10.0	18.4	31.8	63.6	105.4
70°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	20.1	28.4	56.9
72.5°	0.0	0.0	1.7	1.7	3.3	8.4	10.0	13.4	20.1	28.4
75°	0.0	0.0	1.7	1.7	5.0	10.0	8.4	10.0	13.4	18.4
77.5°	0.0	0.0	1.7	3.3	5.0	10.0	8.4	10.0	10.0	11.7
80°	0.0	0.0	1.7	3.3	6.7	11.7	10.0	10.0	8.4	8.4
82.5°	0.0	0.0	1.7	5.0	6.7	15.1	15.1	13.4	6.7	5.0
85°	0.0	0.0	3.3	6.7	10.0	16.7	16.7	13.4	5.0	3.3
87.5°	0.0	0.0	3.3	5.0	8.4	11.7	16.7	13.4	5.0	1.7
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°
9040.2	0°	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2	9040.2
9011.8	2.5°	9057.0	9046.9	9080.4	9093.8	9112.2	9041.9	8998.4	9000.1	8919.8
8909.8	5°	8963.3	8965.0	9008.5	9005.1	9023.5	8985.0	8968.3	8939.9	8869.6
8781.0	7.5°	8844.5	8829.5	8871.3	8903.1	8856.2	8883.0	8844.5	8857.9	8816.1
8667.2	10°	8752.5	8717.4	8755.9	8777.6	8779.3	8752.5	8715.7	8680.6	8665.5
8489.9	12.5°	8548.4	8503.3	8568.5	8598.6	8593.6	8541.7	8499.9	8508.3	8459.8
8178.7	15°	8267.4	8269.1	8315.9	8344.3	8317.6	8305.9	8309.2	8289.1	8247.3
7748.8	17.5°	7837.4	7862.5	7986.3	8054.9	8070.0	8046.6	8034.8	8011.4	7969.6
7062.9	20°	7121.5	7272.0	7492.8	7705.3	7747.1	7740.4	7698.6	7688.6	7665.1
6383.7	22.5°	6492.5	6604.5	6860.5	7191.7	7362.3	7379.1	7328.9	7313.8	7288.7
5776.5	25°	5841.7	5962.1	6193.0	6552.7	6905.7	6977.6	6969.2	6924.1	6897.3
5237.8	27.5°	5293.0	5413.4	5622.6	5947.1	6325.2	6556.0	6577.8	6505.8	6504.2
4757.7	30°	4797.8	4963.4	5122.4	5386.7	5753.0	6099.3	6136.1	6085.9	6091.0
4317.7	32.5°	4409.7	4546.9	4682.4	4859.7	5164.2	5567.3	5711.2	5664.4	5646.0
3951.3	35°	4013.2	4106.9	4245.8	4408.0	4615.5	5015.3	5264.6	5229.4	5211.0
3456.2	37.5°	3561.6	3722.2	3822.5	4004.9	4167.1	4485.0	4836.3	4831.3	4792.8
3034.6	40°	3098.2	3267.1	3419.4	3603.4	3728.9	3981.5	4371.2	4369.6	4374.6
2598.0	42.5°	2678.3	2833.9	3017.9	3218.6	3339.1	3523.1	3941.3	3964.7	3993.2
2238.3	45°	2298.5	2439.1	2609.7	2853.9	2999.5	3104.9	3476.2	3583.3	3581.6
1917.1	47.5°	1957.3	2089.4	2233.3	2470.8	2656.5	2751.9	3059.7	3211.9	3201.9
1572.5	50°	1642.8	1759.9	1910.4	2082.7	2332.0	2415.6	2644.8	2845.6	2830.5
1253.0	52.5°	1321.6	1483.8	1611.0	1768.2	2030.9	2112.8	2290.2	2485.9	2474.2
940.2	55°	1030.5	1187.7	1341.7	1477.2	1698.0	1820.1	1947.2	2148.0	2144.6
736.1	57.5°	779.6	951.9	1097.4	1226.2	1401.9	1552.4	1654.5	1836.8	1860.2
503.5	60°	577.1	709.3	866.6	1010.4	1149.3	1304.8	1373.4	1552.4	1562.5
344.6	62.5°	393.1	538.7	692.6	823.1	926.8	1087.4	1149.3	1296.5	1314.9
220.8	65°	272.7	366.4	542.0	635.7	762.8	900.0	961.9	1079.0	1115.8
127.1	67.5°	180.7	261.0	423.2	508.6	634.0	727.7	806.3	901.7	941.8
80.3	70°	98.7	192.4	302.8	401.5	510.2	600.6	677.5	754.5	789.6
36.8	72.5°	66.9	128.8	210.8	317.8	411.5	500.2	568.8	625.7	627.3
21.7	75°	33.5	87.0	160.6	245.9	321.2	408.2	470.1	503.5	463.4
13.4	77.5°	20.1	63.6	130.5	197.4	261.0	329.6	364.7	383.1	317.8
10.0	80°	11.7	45.2	102.0	157.3	180.7	242.6	276.0	281.0	212.5
6.7	82.5°	8.4	33.5	80.3	115.4	110.4	170.6	207.4	200.7	135.5
5.0	85°	5.0	23.4	50.2	71.9	66.9	112.1	120.4	123.8	78.6
3.3	87.5°	3.3	13.4	26.8	38.5	31.8	48.5	48.5	58.6	38.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9040.2
8816.1
8852.9
8745.8
8598.6
8417.9
8205.5
7951.2
7611.6
7282.1
6868.8
6500.8
6065.9
5647.6
5185.9
4824.6
4374.6
3978.1
3585.0
3205.2
2843.9
2499.3
2153.0
1850.2
1577.5
1318.2
1107.4
936.8
776.2
612.3
433.3
306.1
199.1
125.5
71.9
33.5
0.0

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