

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: P638174

Luminaire Tested: **IFLD-M-SA4B-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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: 17567.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

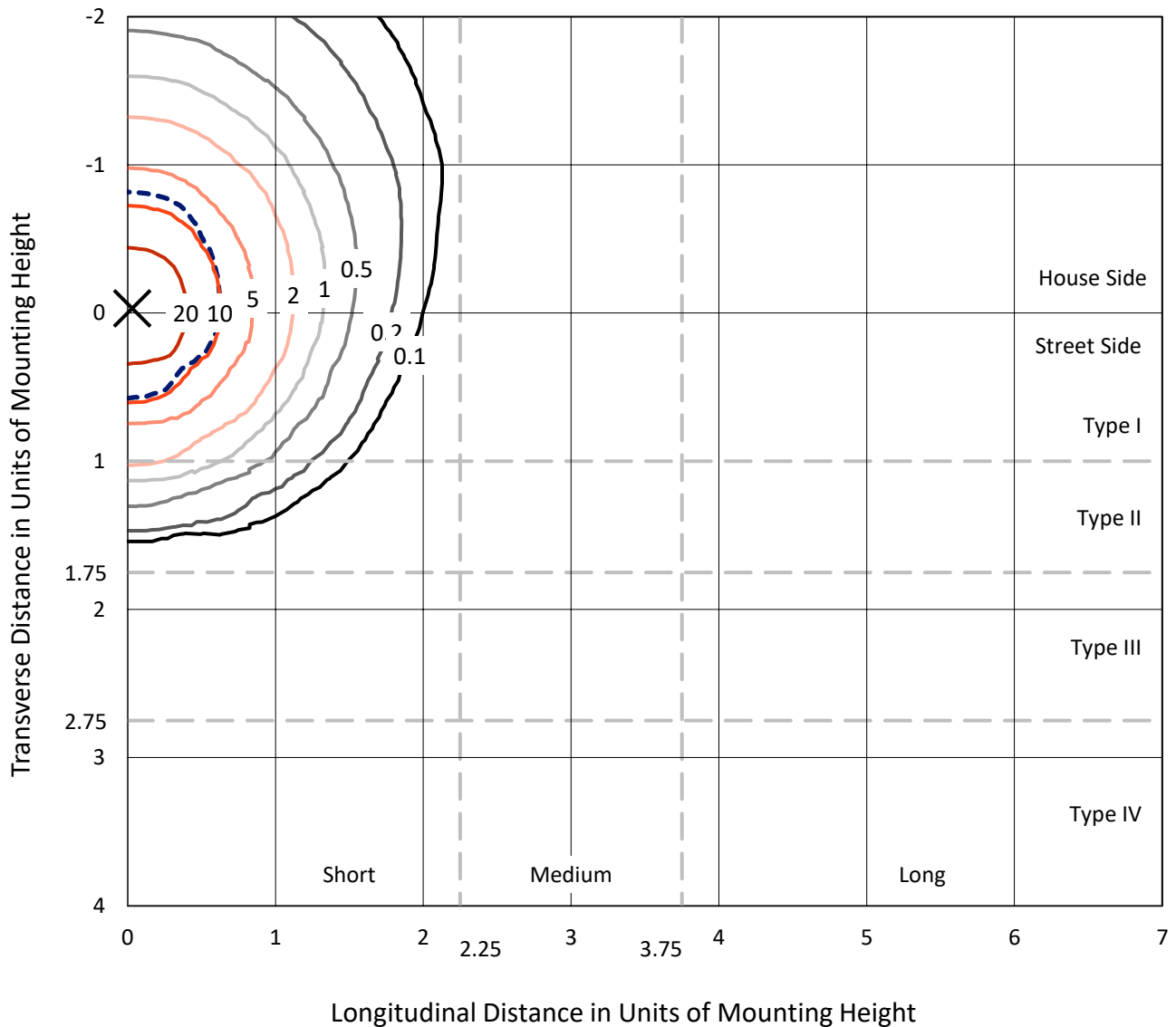
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

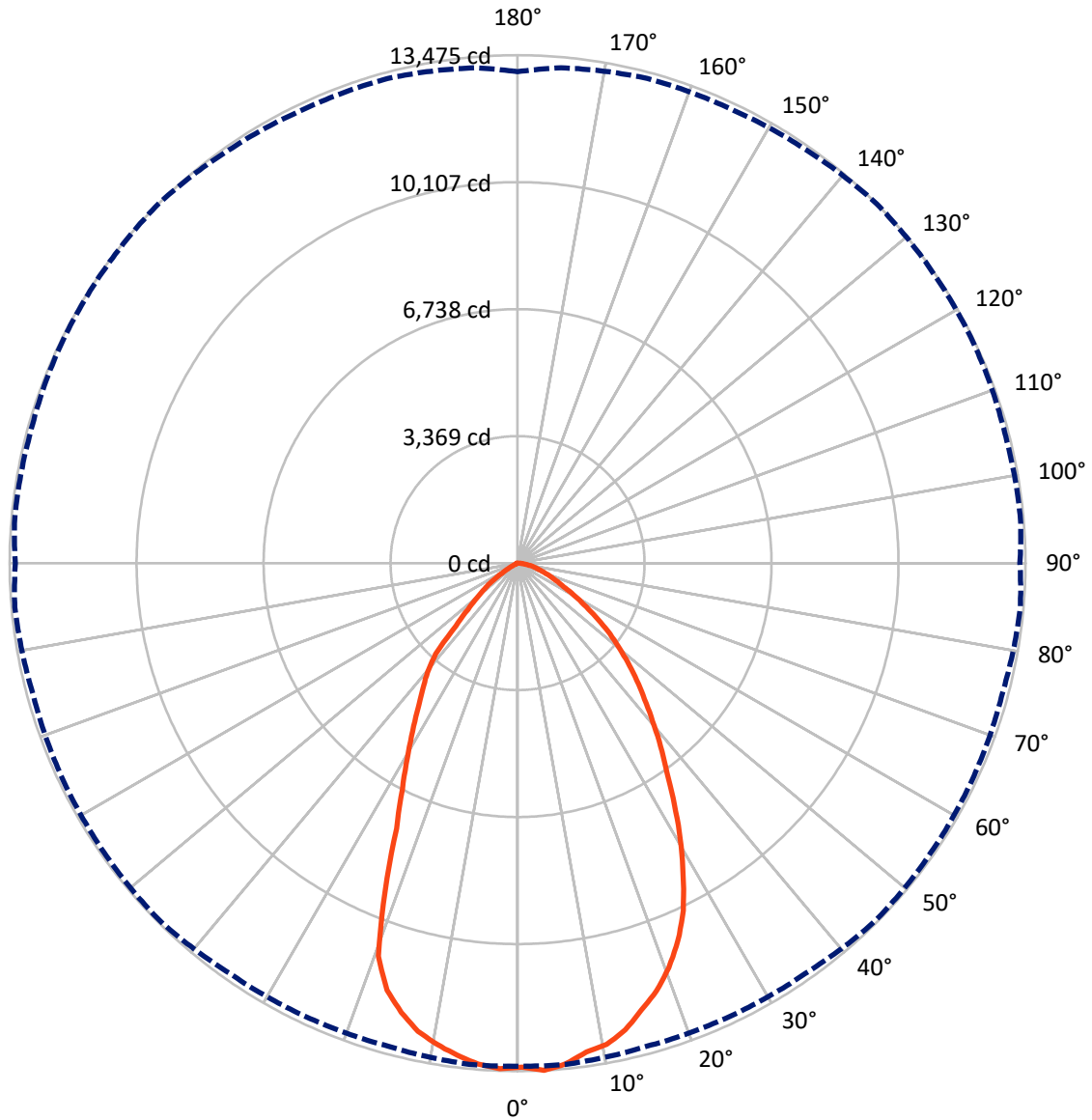
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.4 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	10404.5	0.0	10404.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7163.2	0.0	7163.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	17567.7	0.0	17567.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.8	7.1
10°-20°	3362.1	19.1
20°-30°	4100.3	23.3
30°-40°	3743.5	21.3
40°-50°	2705.4	15.4
50°-60°	1477.2	8.4
60°-70°	610.7	3.5
70°-80°	247.4	1.4
80°-90°	67.3	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°	17567.7	100.0
0°-180°	17567.7	100.0



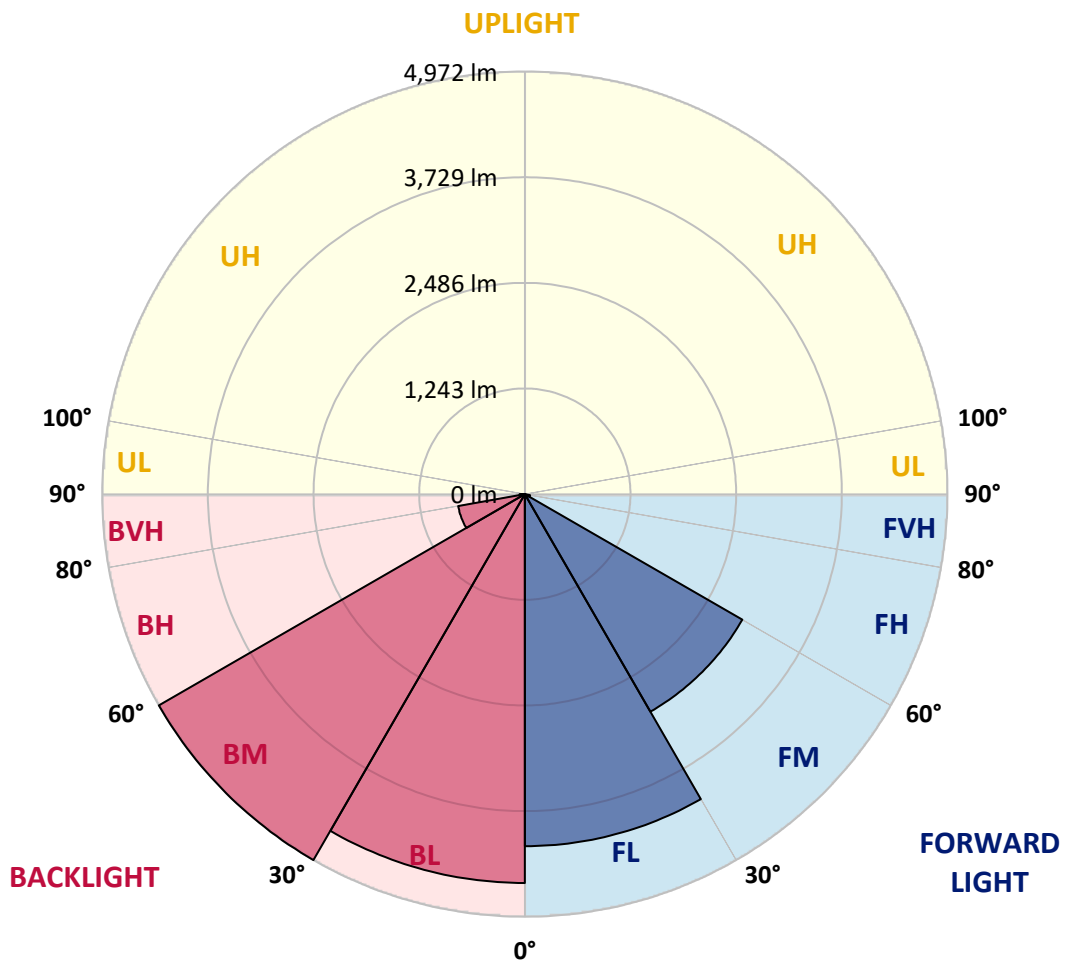
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4141.4	23.6			
FM (30°-60°)	2954.6	16.8			
FH (60°-80°)	61.9	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4574.9	26.0	B4/5000		
BM (30°-60°)	4971.5	28.3	B3/5000		
BH (60°-80°)	796.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.9	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°	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0
2.5°	13344.3	13361.6	13267.6	13277.5	13294.8	13420.9	13388.8	13359.1	13317.0	13388.8
5°	13326.9	13336.8	13237.9	13203.2	13218.1	13331.9	13228.0	13228.0	13218.1	13205.7
7.5°	13193.3	13198.3	13121.6	13059.8	13099.3	13151.3	13074.6	13111.7	13057.3	13099.3
10°	12993.0	12960.8	12869.3	12852.0	12896.5	12946.0	12894.0	12928.6	12879.2	12911.3
12.5°	12698.6	12649.1	12574.9	12552.6	12629.3	12696.1	12654.0	12634.2	12569.9	12649.1
15°	11563.0	11525.9	11694.2	11988.6	12253.3	12310.2	12265.6	12285.4	12151.8	12174.1
17.5°	9517.1	9447.9	9628.4	10326.1	11320.6	11845.1	11805.5	11676.8	11478.9	11523.5
20°	8648.8	8629.0	8609.2	8775.0	9470.1	11060.8	11115.3	10788.7	10506.7	10444.8
22.5°	8158.9	8151.5	8131.7	8168.8	8351.9	9373.6	9997.1	9695.2	9507.2	9489.9
25°	7711.2	7698.8	7639.4	7686.4	7686.4	7745.8	8544.9	8727.9	8562.2	8542.4
27.5°	7256.0	7233.7	7223.8	7246.1	7132.3	6731.5	6934.4	7827.4	7740.9	7745.8
30°	6763.7	6756.2	6729.0	6776.0	6424.7	5927.5	5798.8	7011.1	7028.4	7023.4
32.5°	6031.4	6063.5	6187.2	6239.2	5660.3	5249.6	5034.4	6066.0	6419.8	6412.4
35°	4381.3	4381.3	4784.5	5534.1	4960.2	4650.9	4534.7	5143.3	5818.6	5843.4
37.5°	3602.0	3614.4	3693.5	4034.9	4279.9	4171.0	4136.4	4329.3	5046.8	5086.4
40°	3240.8	3240.8	3240.8	3099.8	3092.4	3757.9	3738.1	3676.2	4359.0	4445.6
42.5°	2911.8	2919.2	2924.2	2567.9	2370.0	3248.2	3203.7	3109.7	3743.0	3844.5
45°	2572.9	2585.2	2600.1	2147.4	2060.8	2337.8	2711.4	2607.5	3134.4	3265.6
47.5°	1570.9	1590.7	1927.2	1820.8	1830.7	1803.5	2211.7	2194.4	2570.4	2755.9
50°	1061.3	1068.7	1100.9	1155.3	1570.9	1417.5	1566.0	1815.8	1951.9	2233.9
52.5°	890.6	903.0	823.8	749.6	1031.6	1108.3	1093.5	1348.3	1402.7	1751.5
55°	625.9	665.5	628.4	621.0	586.3	860.9	828.8	1036.6	1071.2	1331.0
57.5°	64.3	74.2	128.6	462.6	383.5	487.4	591.3	759.5	794.1	982.1
60°	4.9	4.9	12.4	64.3	279.6	291.9	408.2	467.6	534.4	685.3
62.5°	0.0	2.5	4.9	9.9	44.5	155.9	205.3	244.9	321.6	442.8
65°	0.0	0.0	2.5	7.4	9.9	59.4	79.2	128.6	175.6	274.6
67.5°	0.0	0.0	2.5	4.9	7.4	14.8	27.2	47.0	94.0	155.9
70°	0.0	0.0	2.5	4.9	7.4	12.4	19.8	29.7	42.1	84.1
72.5°	0.0	0.0	2.5	2.5	4.9	12.4	14.8	19.8	29.7	42.1
75°	0.0	0.0	2.5	2.5	7.4	14.8	12.4	14.8	19.8	27.2
77.5°	0.0	0.0	2.5	4.9	7.4	14.8	12.4	14.8	14.8	17.3
80°	0.0	0.0	2.5	4.9	9.9	17.3	14.8	14.8	12.4	12.4
82.5°	0.0	0.0	2.5	7.4	9.9	22.3	22.3	19.8	9.9	7.4
85°	0.0	0.0	4.9	9.9	14.8	24.7	24.7	19.8	7.4	4.9
87.5°	0.0	0.0	4.9	7.4	12.4	17.3	24.7	19.8	7.4	2.5
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°
13369.0	0°	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0	13369.0
13326.9	2.5°	13393.7	13378.9	13428.4	13448.2	13475.4	13371.5	13307.1	13309.6	13190.9
13176.0	5°	13255.2	13257.7	13322.0	13317.0	13344.3	13287.4	13262.6	13220.6	13116.7
12985.5	7.5°	13079.5	13057.3	13119.1	13166.1	13096.9	13136.4	13079.5	13099.3	13037.5
12817.3	10°	12943.5	12891.5	12948.4	12980.6	12983.1	12943.5	12889.1	12837.1	12814.8
12555.1	12.5°	12641.7	12574.9	12671.4	12715.9	12708.5	12631.8	12569.9	12582.3	12510.6
12094.9	15°	12226.1	12228.5	12297.8	12339.9	12300.3	12283.0	12287.9	12258.2	12196.4
11459.1	17.5°	11590.3	11627.4	11810.4	11911.9	11934.1	11899.5	11882.2	11847.5	11785.7
10444.8	20°	10531.4	10754.1	11080.6	11394.8	11456.7	11446.8	11384.9	11370.1	11335.4
9440.4	22.5°	9601.2	9767.0	10145.5	10635.3	10887.7	10912.4	10838.2	10815.9	10778.8
8542.4	25°	8638.9	8817.0	9158.4	9690.3	10212.3	10318.7	10306.3	10239.5	10199.9
7745.8	27.5°	7827.4	8005.6	8314.8	8794.7	9353.8	9695.2	9727.4	9621.0	9618.6
7035.8	30°	7095.2	7340.1	7575.1	7966.0	8507.8	9019.9	9074.3	9000.1	9007.5
6385.2	32.5°	6521.2	6724.1	6924.5	7186.7	7637.0	8233.2	8445.9	8376.7	8349.4
5843.4	35°	5934.9	6073.4	6278.8	6518.7	6825.5	7416.8	7785.4	7733.4	7706.2
5111.1	37.5°	5266.9	5504.4	5652.9	5922.5	6162.5	6632.5	7152.1	7144.6	7087.7
4487.7	40°	4581.7	4831.5	5056.7	5328.8	5514.3	5887.9	6464.3	6461.8	6469.3
3842.0	42.5°	3960.7	4190.8	4462.9	4759.8	4937.9	5210.0	5828.5	5863.2	5905.2
3310.1	45°	3399.1	3607.0	3859.3	4220.5	4435.7	4591.6	5140.8	5299.1	5296.6
2835.1	47.5°	2894.5	3089.9	3302.7	3654.0	3928.6	4069.6	4524.8	4749.9	4735.1
2325.5	50°	2429.4	2602.6	2825.2	3080.0	3448.6	3572.3	3911.2	4208.1	4185.9
1853.0	52.5°	1954.4	2194.4	2382.4	2614.9	3003.3	3124.5	3386.8	3676.2	3658.9
1390.3	55°	1523.9	1756.5	1984.1	2184.5	2511.0	2691.6	2879.6	3176.5	3171.5
1088.5	57.5°	1152.8	1407.7	1622.9	1813.4	2073.1	2295.8	2446.7	2716.4	2751.0
744.6	60°	853.5	1048.9	1281.5	1494.2	1699.6	1929.6	2031.1	2295.8	2310.6
509.6	62.5°	581.4	796.6	1024.2	1217.2	1370.5	1608.0	1699.6	1917.3	1944.5
326.6	65°	403.2	541.8	801.5	940.1	1128.1	1331.0	1422.5	1595.7	1650.1
188.0	67.5°	267.2	385.9	625.9	752.1	937.6	1076.1	1192.4	1333.4	1392.8
118.7	70°	146.0	284.5	447.8	593.7	754.5	888.1	1001.9	1115.7	1167.7
54.4	72.5°	99.0	190.5	311.7	470.0	608.6	739.7	841.1	925.2	927.7
32.2	75°	49.5	128.6	237.5	363.7	475.0	603.6	695.2	744.6	685.3
19.8	77.5°	29.7	94.0	193.0	291.9	385.9	487.4	539.3	566.5	470.0
14.8	80°	17.3	66.8	150.9	232.5	267.2	358.7	408.2	415.6	314.2
9.9	82.5°	12.4	49.5	118.7	170.7	163.3	252.3	306.8	296.9	200.4
7.4	85°	7.4	34.6	74.2	106.4	99.0	165.8	178.1	183.1	116.3
4.9	87.5°	4.9	19.8	39.6	56.9	47.0	71.7	71.7	86.6	56.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13369.0
13037.5
13091.9
12933.6
12715.9
12448.7
12134.5
11758.5
11256.3
10768.9
10157.9
9613.6
8970.4
8351.9
7669.1
7134.7
6469.3
5883.0
5301.6
4740.0
4205.6
3696.0
3183.9
2736.1
2332.9
1949.4
1637.7
1385.4
1147.9
905.5
640.7
452.7
294.4
185.5
106.4
49.5
0.0

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