

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: P638306

Luminaire Tested: **IFLD-S-SA2D-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8490.7 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

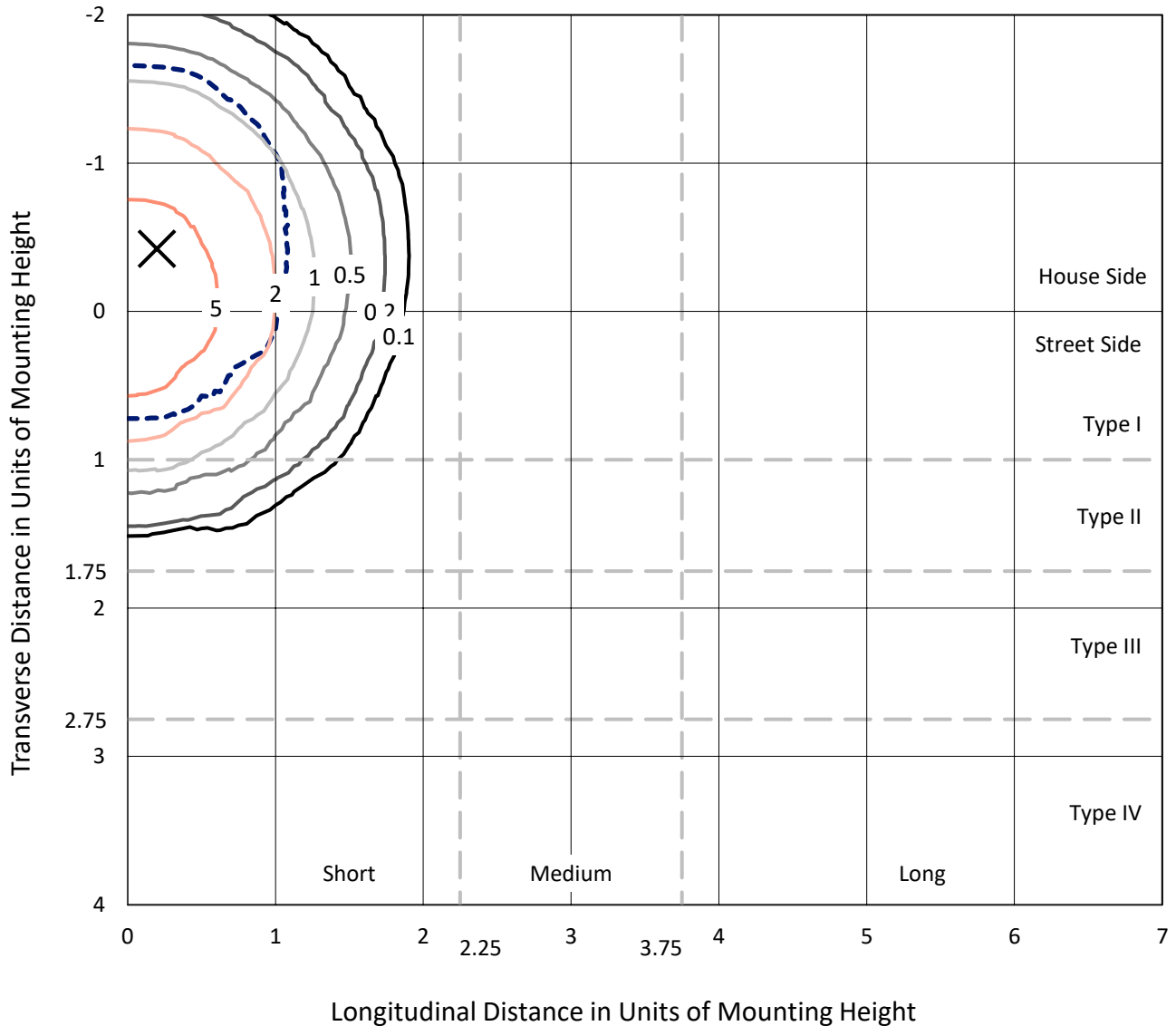
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

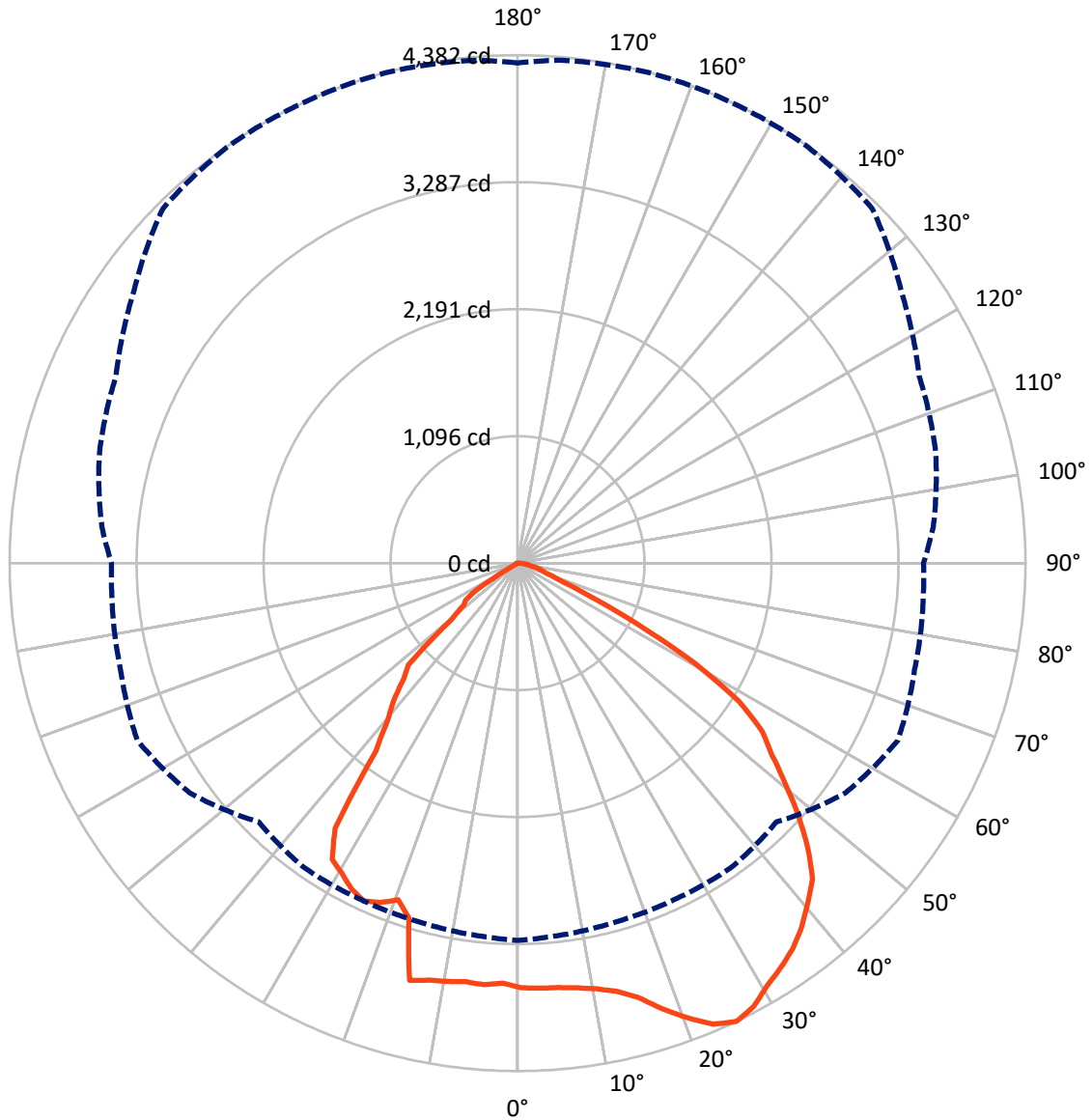
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	5256.6	0.0	5256.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3234.1	0.0	3234.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	8490.7	0.0	8490.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.5	4.1
10°-20°	1073.2	12.6
20°-30°	1696.7	20.0
30°-40°	1916.5	22.6
40°-50°	1794.9	21.1
50°-60°	1237.4	14.6
60°-70°	332.5	3.9
70°-80°	69.3	0.8
80°-90°	18.7	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°	8490.7	100.0
0°-180°	8490.7	100.0



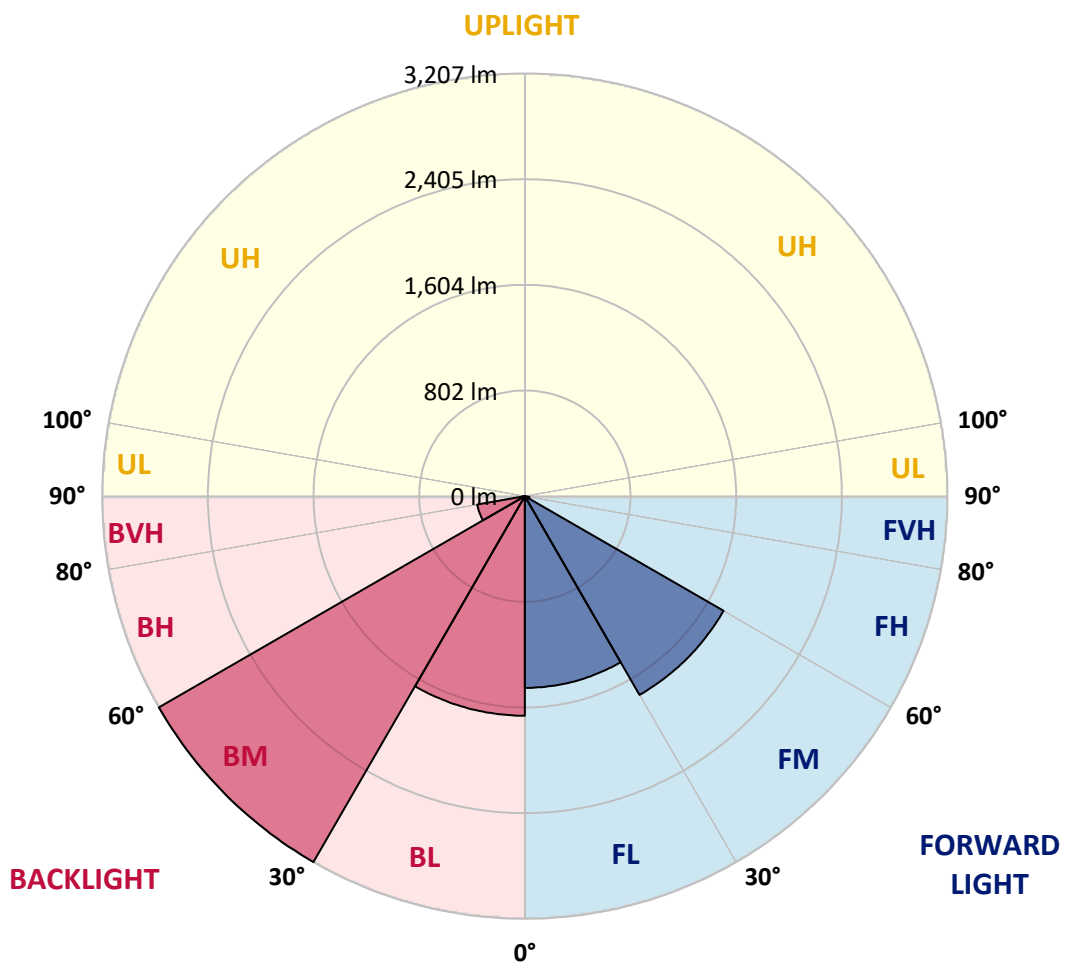
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.0	17.1			
FM	(30°-60°)	1741.6	20.5			
FH	(60°-80°)	34.9	0.4			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	1666.3	19.6	B3/2500		
BM	(30°-60°)	3207.2	37.8	B3/5000		
BH	(60°-80°)	366.8	4.3	B1/500		G1/500
BVH	(80°-90°)	16.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
2.5°	3679.8	3656.1	3633.6	3626.2	3657.4	3691.0	3669.8	3671.1	3663.6	3677.3
5°	3707.3	3674.8	3659.8	3648.6	3653.6	3688.5	3658.6	3669.8	3657.4	3673.6
7.5°	3697.3	3674.8	3659.8	3638.6	3654.9	3696.0	3667.3	3668.6	3662.3	3677.3
10°	3691.0	3674.8	3656.1	3658.6	3677.3	3712.3	3689.8	3702.3	3693.5	3702.3
12.5°	3706.0	3688.5	3678.6	3678.6	3694.8	3734.7	3723.5	3734.7	3731.0	3738.5
15°	3565.0	3581.2	3676.1	3718.5	3750.9	3790.9	3785.9	3797.1	3799.6	3810.8
17.5°	3007.2	2991.0	2983.5	3201.9	3782.1	3905.7	3901.9	3900.7	3888.2	3879.5
20°	3080.9	3074.6	3065.9	3082.1	3147.0	3965.6	3990.5	3837.0	3792.1	3788.4
22.5°	3198.2	3188.2	3155.7	3157.0	3176.9	3447.7	3867.0	3727.2	3712.3	3703.5
25°	3255.6	3235.6	3209.4	3201.9	3208.1	3158.2	3454.0	3619.9	3546.3	3512.6
27.5°	3154.5	3155.7	3134.5	3154.5	3130.8	2906.2	2780.1	3410.3	3407.8	3392.8
30°	3078.4	3074.6	3049.7	3074.6	2911.2	2660.3	2606.7	3180.7	3154.5	3134.5
32.5°	2845.0	2847.5	2919.9	3017.2	2748.9	2550.5	2388.3	2841.3	3089.6	3078.4
35°	2035.2	2040.2	2297.2	2777.6	2503.1	2332.2	2319.7	2455.7	2987.3	2992.3
37.5°	1959.1	1959.1	1952.8	2031.4	2309.7	2243.6	2268.5	2254.8	2736.5	2748.9
40°	1904.2	1892.9	1884.2	1760.7	1605.9	2181.2	2198.7	2136.3	2586.7	2589.2
42.5°	1838.0	1825.6	1828.1	1599.7	1437.5	2026.5	1977.8	1894.2	2337.2	2339.7
45°	1717.0	1738.2	1753.2	1400.1	1387.6	1447.5	1824.3	1771.9	2168.7	2214.9
47.5°	873.5	892.2	1368.9	1287.7	1316.4	1286.5	1541.1	1542.3	1804.3	1957.8
50°	792.4	787.4	788.6	751.2	1215.4	1040.7	1114.3	1413.8	1445.0	1664.6
52.5°	738.7	737.5	661.3	587.7	763.7	915.9	808.6	1023.2	1074.4	1410.0
55°	546.5	586.5	521.6	552.8	477.9	733.7	730.0	923.4	940.9	1130.5
57.5°	5.0	6.2	15.0	420.5	330.7	366.9	504.1	630.1	661.3	881.0
60°	1.2	2.5	6.2	12.5	214.6	225.9	336.9	364.4	410.5	525.3
62.5°	0.0	0.0	2.5	6.2	11.2	92.3	107.3	117.3	180.9	268.3
65°	0.0	0.0	1.2	3.7	6.2	15.0	26.2	54.9	78.6	97.3
67.5°	0.0	0.0	1.2	2.5	5.0	7.5	15.0	21.2	33.7	57.4
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	15.0	20.0	28.7
72.5°	0.0	0.0	1.2	2.5	2.5	7.5	7.5	11.2	15.0	18.7
75°	0.0	0.0	1.2	1.2	2.5	5.0	7.5	8.7	10.0	15.0
77.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	10.0	8.7	8.7
80°	0.0	0.0	1.2	3.7	3.7	6.2	7.5	10.0	6.2	6.2
82.5°	0.0	0.0	1.2	5.0	3.7	12.5	12.5	13.7	5.0	5.0
85°	0.0	0.0	3.7	2.5	7.5	12.5	11.2	7.5	6.2	3.7
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	8.7	7.5	2.5	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°
3663.6	0°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
3641.1	2.5°	3691.0	3674.8	3708.5	3704.8	3688.5	3681.1	3672.3	3664.8	3609.9
3643.6	5°	3692.3	3667.3	3708.5	3701.0	3698.5	3686.1	3678.6	3689.8	3639.9
3653.6	7.5°	3692.3	3667.3	3712.3	3714.8	3711.0	3701.0	3699.8	3707.3	3666.1
3671.1	10°	3717.2	3707.3	3744.7	3748.4	3743.5	3741.0	3734.7	3729.7	3686.1
3731.0	12.5°	3769.7	3749.7	3792.1	3803.3	3799.6	3805.8	3790.9	3798.4	3753.4
3792.1	15°	3833.3	3834.5	3867.0	3891.9	3889.4	3909.4	3887.0	3906.9	3874.5
3862.0	17.5°	3930.6	3944.4	3990.5	4028.0	4041.7	4056.7	4041.7	4047.9	4001.8
3784.6	20°	3828.3	3879.5	4101.6	4170.2	4198.9	4212.6	4187.7	4195.2	4149.0
3689.8	22.5°	3736.0	3802.1	3999.3	4213.9	4302.5	4329.9	4321.2	4319.9	4302.5
3502.6	25°	3600.0	3733.5	3822.1	4049.2	4327.4	4377.3	4382.3	4381.1	4354.9
3387.8	27.5°	3432.7	3462.7	3692.3	3830.8	4152.7	4342.4	4334.9	4298.7	4263.8
3149.5	30°	3219.4	3355.4	3459.0	3679.8	3926.9	4235.1	4235.1	4207.6	4171.5
3064.6	32.5°	3110.8	3286.8	3382.8	3462.7	3673.6	4115.3	4165.2	4136.5	4107.8
2998.5	35°	3053.4	3079.6	3304.2	3376.6	3555.0	3884.5	4086.6	4057.9	4036.7
2822.6	37.5°	2927.4	2988.5	3093.3	3286.8	3341.7	3696.0	3981.8	3966.8	3941.9
2594.2	40°	2646.6	2810.1	2971.1	3154.5	3211.9	3454.0	3854.5	3860.7	3827.1
2350.9	42.5°	2480.7	2591.7	2843.8	2967.3	3122.0	3298.0	3731.0	3741.0	3717.2
2227.4	45°	2286.0	2409.5	2586.7	2811.3	3022.2	3083.4	3512.6	3617.4	3597.5
1981.5	47.5°	2107.6	2207.4	2424.5	2651.6	2885.0	2876.2	3261.8	3459.0	3431.5
1793.1	50°	1854.3	2029.0	2131.3	2339.7	2687.8	2711.5	2994.8	3273.0	3250.6
1523.6	52.5°	1563.5	1783.1	1979.0	2170.0	2488.1	2544.3	2746.4	3083.4	3068.4
1164.2	55°	1366.4	1526.1	1746.9	1900.4	2246.1	2395.8	2560.5	2902.4	2894.9
957.1	57.5°	972.0	1280.3	1462.4	1677.1	1859.2	2130.0	2252.3	2534.3	2464.4
530.3	60°	658.8	803.6	1025.7	1256.6	1378.8	1649.6	1763.2	1989.0	1970.3
316.9	62.5°	348.1	481.7	640.1	756.2	844.8	1108.1	1155.5	1398.8	1392.6
127.3	65°	153.5	203.4	346.9	406.8	497.9	620.2	661.3	748.7	727.5
62.4	67.5°	79.9	121.0	195.9	240.8	303.2	349.4	383.1	410.5	428.0
41.2	70°	48.7	88.6	121.0	167.2	208.4	245.8	272.0	309.5	331.9
21.2	72.5°	36.2	56.2	83.6	128.5	151.0	194.7	220.9	248.3	268.3
17.5	75°	20.0	37.4	67.4	101.1	121.0	158.5	182.2	200.9	207.1
10.0	77.5°	12.5	28.7	56.2	78.6	94.8	128.5	122.3	139.8	154.7
7.5	80°	8.7	21.2	43.7	64.9	66.1	82.4	97.3	112.3	122.3
5.0	82.5°	6.2	17.5	32.4	49.9	43.7	63.6	76.1	87.3	63.6
3.7	85°	5.0	12.5	16.2	29.9	25.0	44.9	38.7	37.4	25.0
2.5	87.5°	3.7	6.2	11.2	13.7	10.0	10.0	12.5	15.0	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3663.6
3572.5
3597.5
3618.7
3649.9
3713.5
3820.8
3961.8
4116.6
4246.3
4315.0
4236.3
4157.7
4084.1
4006.7
3916.9
3819.6
3714.8
3600.0
3451.5
3254.3
3078.4
2903.7
2457.0
1971.6
1393.8
718.7
428.0
333.2
272.0
203.4
157.2
123.5
46.2
25.0
12.5
0.0

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