

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: P638541

Luminaire Tested: **IFLD-S-SA3B-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638541
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9965.3 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

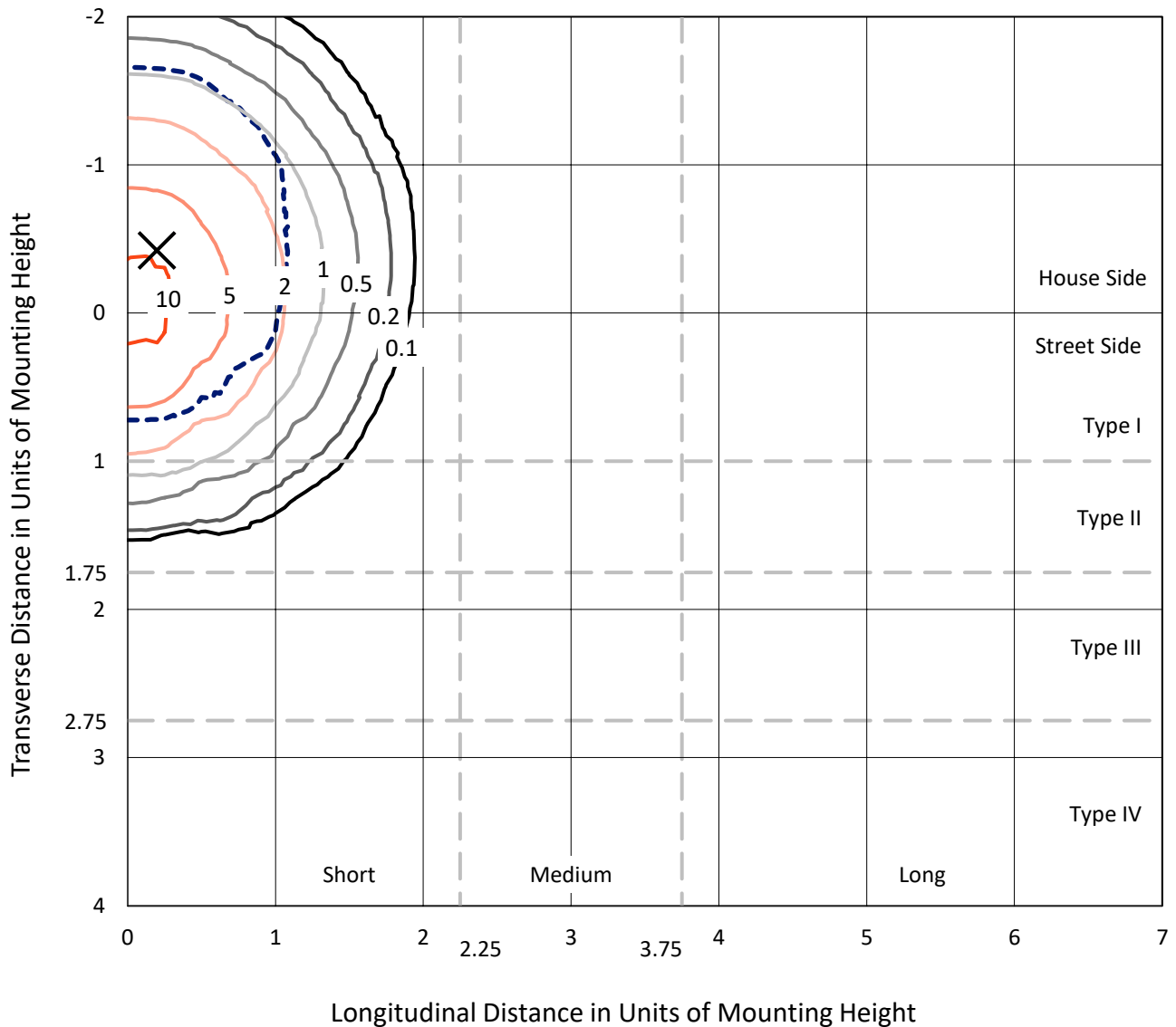
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

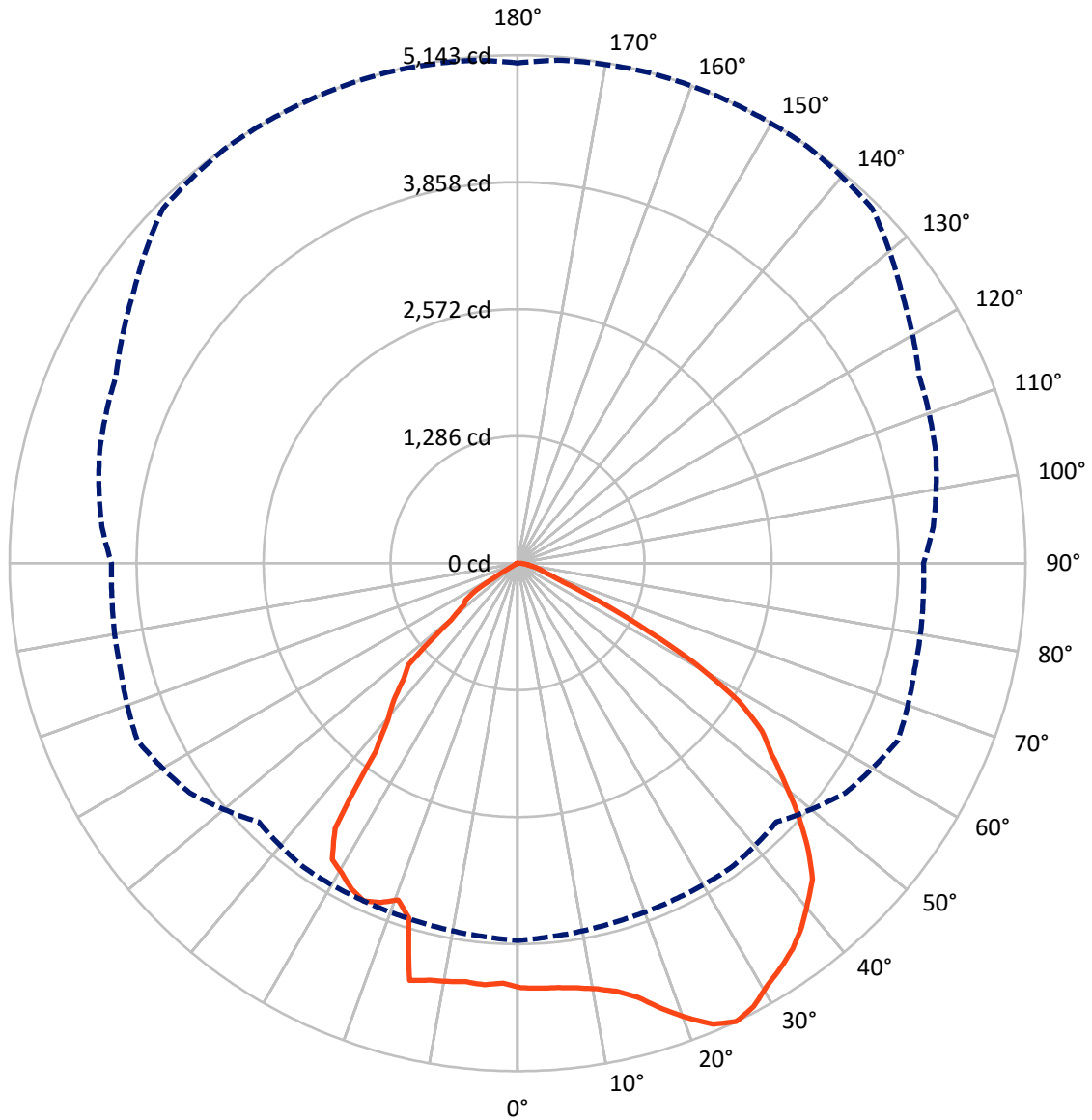
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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	6169.6	0.0	6169.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3795.8	0.0	3795.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	9965.3	0.0	9965.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	4.1
10°-20°	1259.6	12.6
20°-30°	1991.3	20.0
30°-40°	2249.4	22.6
40°-50°	2106.6	21.1
50°-60°	1452.4	14.6
60°-70°	390.2	3.9
70°-80°	81.3	0.8
80°-90°	22.0	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°	9965.3	100.0
0°-180°	9965.3	100.0



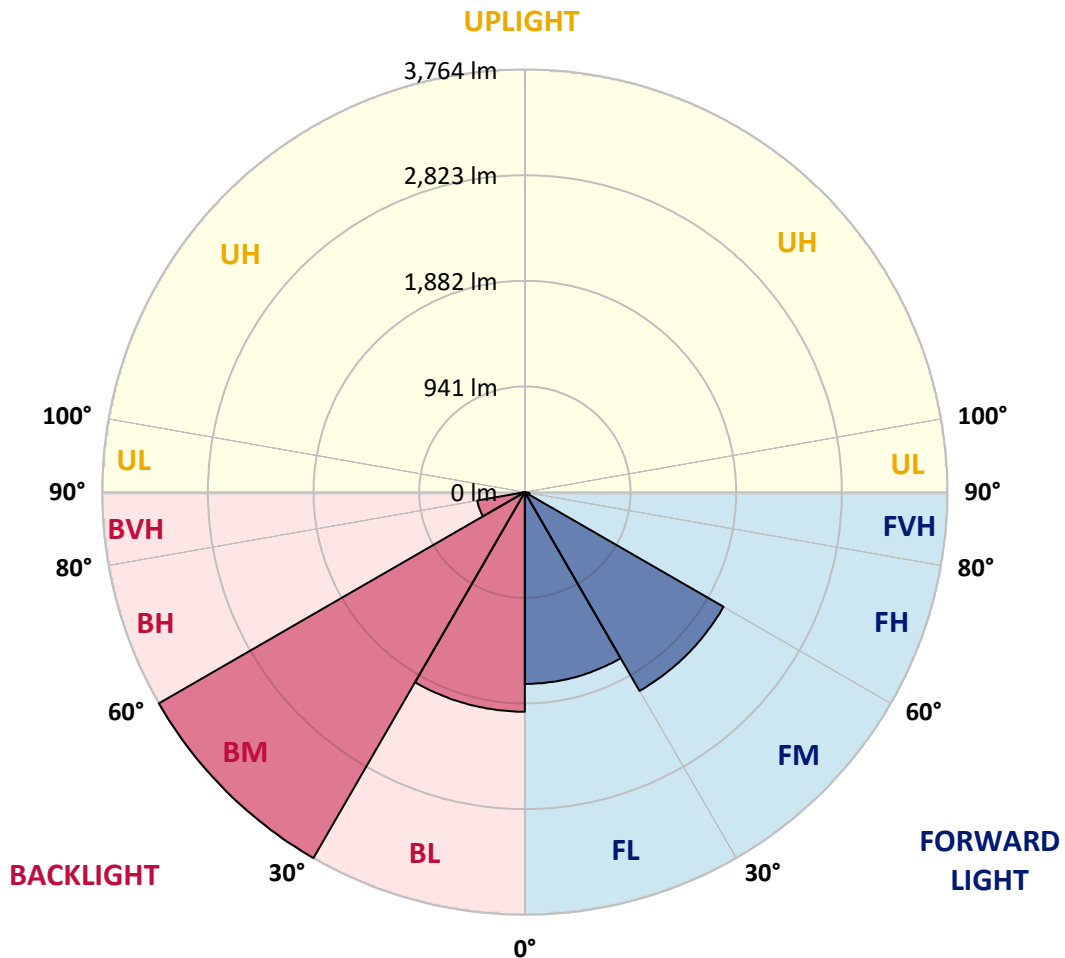
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.7	17.1			
FM (30°-60°)	2044.1	20.5			
FH (60°-80°)	41.0	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1955.7	19.6	B3/2500		
BM (30°-60°)	3764.3	37.8	B3/5000		
BH (60°-80°)	430.5	4.3	B1/500		G1/500
BVH (80°-90°)	19.0	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°	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9
2.5°	4318.9	4291.1	4264.7	4255.9	4292.5	4332.1	4307.2	4308.6	4299.9	4316.0
5°	4351.1	4313.0	4295.5	4282.3	4288.1	4329.2	4294.0	4307.2	4292.5	4311.6
7.5°	4339.4	4313.0	4295.5	4270.6	4289.6	4337.9	4304.3	4305.7	4298.4	4316.0
10°	4332.1	4313.0	4291.1	4294.0	4316.0	4357.0	4330.6	4345.3	4335.0	4345.3
12.5°	4349.7	4329.2	4317.4	4317.4	4336.5	4383.3	4370.2	4383.3	4378.9	4387.7
15°	4184.2	4203.2	4314.5	4364.3	4402.4	4449.2	4443.4	4456.6	4459.5	4472.7
17.5°	3529.5	3510.5	3501.7	3758.0	4439.0	4584.0	4579.6	4578.1	4563.5	4553.2
20°	3615.9	3608.6	3598.4	3617.4	3693.5	4654.3	4683.6	4503.4	4450.7	4446.3
22.5°	3753.6	3741.9	3703.8	3705.3	3728.7	4046.5	4538.6	4374.6	4357.0	4346.7
25°	3821.0	3797.5	3766.8	3758.0	3765.3	3706.7	4053.8	4248.6	4162.2	4122.7
27.5°	3702.3	3703.8	3678.9	3702.3	3674.5	3410.9	3263.0	4002.6	3999.6	3982.1
30°	3613.0	3608.6	3579.3	3608.6	3416.7	3122.4	3059.4	3733.1	3702.3	3678.9
32.5°	3339.1	3342.1	3427.0	3541.2	3226.4	2993.5	2803.1	3334.7	3626.2	3613.0
35°	2388.6	2394.5	2696.2	3260.0	2937.8	2737.2	2722.6	2882.2	3506.1	3511.9
37.5°	2299.3	2299.3	2292.0	2384.3	2710.8	2633.2	2662.5	2646.4	3211.7	3226.4
40°	2234.9	2221.7	2211.4	2066.5	1884.9	2560.0	2580.5	2507.3	3036.0	3038.9
42.5°	2157.3	2142.6	2145.5	1877.5	1687.1	2378.4	2321.3	2223.2	2743.1	2746.0
45°	2015.2	2040.1	2057.7	1643.2	1628.6	1698.9	2141.1	2079.6	2545.4	2599.5
47.5°	1025.2	1047.1	1606.6	1511.4	1545.1	1509.9	1808.7	1810.2	2117.7	2297.8
50°	930.0	924.1	925.6	881.6	1426.5	1221.4	1307.8	1659.3	1695.9	1953.7
52.5°	867.0	865.5	776.2	689.8	896.3	1075.0	949.0	1200.9	1261.0	1654.9
55°	641.5	688.3	612.2	648.8	560.9	861.1	856.8	1083.8	1104.3	1326.9
57.5°	5.9	7.3	17.6	493.5	388.1	430.6	591.7	739.6	776.2	1034.0
60°	1.5	2.9	7.3	14.6	251.9	265.1	395.4	427.6	481.8	616.6
62.5°	0.0	0.0	2.9	7.3	13.2	108.4	125.9	137.7	212.4	314.9
65°	0.0	0.0	1.5	4.4	7.3	17.6	30.8	64.4	92.3	114.2
67.5°	0.0	0.0	1.5	2.9	5.9	8.8	17.6	24.9	39.5	67.4
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.7	17.6	23.4	33.7
72.5°	0.0	0.0	1.5	2.9	2.9	8.8	8.8	13.2	17.6	22.0
75°	0.0	0.0	1.5	1.5	2.9	5.9	8.8	10.3	11.7	17.6
77.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	11.7	10.3	10.3
80°	0.0	0.0	1.5	4.4	4.4	7.3	8.8	11.7	7.3	7.3
82.5°	0.0	0.0	1.5	5.9	4.4	14.6	14.6	16.1	5.9	5.9
85°	0.0	0.0	4.4	2.9	8.8	14.6	13.2	8.8	7.3	4.4
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	10.3	8.8	2.9	2.9
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°
4299.9	0°	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9
4273.5	2.5°	4332.1	4313.0	4352.6	4348.2	4329.2	4320.4	4310.1	4301.3	4236.9
4276.4	5°	4333.5	4304.3	4352.6	4343.8	4340.9	4326.2	4317.4	4330.6	4272.0
4288.1	7.5°	4333.5	4304.3	4357.0	4359.9	4355.5	4343.8	4342.3	4351.1	4302.8
4308.6	10°	4362.8	4351.1	4395.1	4399.4	4393.6	4390.7	4383.3	4377.5	4326.2
4378.9	12.5°	4424.3	4400.9	4450.7	4463.9	4459.5	4466.8	4449.2	4458.0	4405.3
4450.7	15°	4499.0	4500.5	4538.6	4567.9	4564.9	4588.4	4562.0	4585.4	4547.4
4532.7	17.5°	4613.3	4629.4	4683.6	4727.5	4743.6	4761.2	4743.6	4750.9	4696.7
4441.9	20°	4493.2	4553.2	4813.9	4894.5	4928.1	4944.3	4915.0	4923.8	4869.6
4330.6	22.5°	4384.8	4462.4	4693.8	4945.7	5049.7	5081.9	5071.7	5070.2	5049.7
4110.9	25°	4225.2	4381.9	4485.9	4752.4	5079.0	5137.6	5143.4	5142.0	5111.2
3976.2	27.5°	4028.9	4064.1	4333.5	4496.1	4874.0	5096.6	5087.8	5045.3	5004.3
3696.5	30°	3778.5	3938.1	4059.7	4318.9	4608.9	4970.6	4970.6	4938.4	4895.9
3596.9	32.5°	3651.1	3857.6	3970.3	4064.1	4311.6	4830.0	4888.6	4854.9	4821.2
3519.3	35°	3583.7	3614.5	3878.1	3963.0	4172.4	4559.1	4796.3	4762.7	4737.8
3312.8	37.5°	3435.8	3507.6	3630.6	3857.6	3922.0	4337.9	4673.3	4655.7	4626.5
3044.8	40°	3106.3	3298.1	3487.0	3702.3	3769.7	4053.8	4523.9	4531.3	4491.7
2759.2	42.5°	2911.5	3041.8	3337.7	3482.7	3664.3	3870.8	4378.9	4390.7	4362.8
2614.2	45°	2683.0	2828.0	3036.0	3299.6	3547.1	3618.9	4122.7	4245.7	4222.2
2325.7	47.5°	2473.6	2590.8	2845.6	3112.1	3386.0	3375.7	3828.3	4059.7	4027.5
2104.5	50°	2176.3	2381.3	2501.4	2746.0	3154.6	3182.4	3514.9	3841.5	3815.1
1788.2	52.5°	1835.1	2092.8	2322.7	2546.8	2920.3	2986.2	3223.4	3618.9	3601.3
1366.4	55°	1603.7	1791.1	2050.3	2230.5	2636.2	2811.9	3005.2	3406.5	3397.7
1123.3	57.5°	1140.9	1502.6	1716.4	1968.3	2182.2	2500.0	2643.5	2974.5	2892.4
622.4	60°	773.3	943.2	1203.8	1474.8	1618.3	1936.1	2069.4	2334.5	2312.5
372.0	62.5°	408.6	565.3	751.3	887.5	991.5	1300.5	1356.2	1641.7	1634.4
149.4	65°	180.1	238.7	407.1	477.4	584.3	727.9	776.2	878.7	853.8
73.2	67.5°	93.7	142.1	229.9	282.7	355.9	410.1	449.6	481.8	502.3
48.3	70°	57.1	104.0	142.1	196.2	244.6	288.5	319.3	363.2	389.6
24.9	72.5°	42.5	65.9	98.1	150.8	177.2	228.5	259.2	291.4	314.9
20.5	75°	23.4	43.9	79.1	118.6	142.1	186.0	213.8	235.8	243.1
11.7	77.5°	14.6	33.7	65.9	92.3	111.3	150.8	143.5	164.0	181.6
8.8	80°	10.3	24.9	51.3	76.2	77.6	96.7	114.2	131.8	143.5
5.9	82.5°	7.3	20.5	38.1	58.6	51.3	74.7	89.3	102.5	74.7
4.4	85°	5.9	14.6	19.0	35.1	29.3	52.7	45.4	43.9	29.3
2.9	87.5°	4.4	7.3	13.2	16.1	11.7	11.7	14.6	17.6	14.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4299.9
4193.0
4222.2
4247.1
4283.8
4358.4
4484.4
4649.9
4831.5
4983.8
5064.3
4972.1
4879.8
4793.4
4702.6
4597.2
4482.9
4359.9
4225.2
4050.9
3819.5
3613.0
3408.0
2883.7
2314.0
1635.9
843.6
502.3
391.0
319.3
238.7
184.5
145.0
54.2
29.3
14.6
0.0

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