

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: P638363

Luminaire Tested: **IFLD-S-SA2C-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9539.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

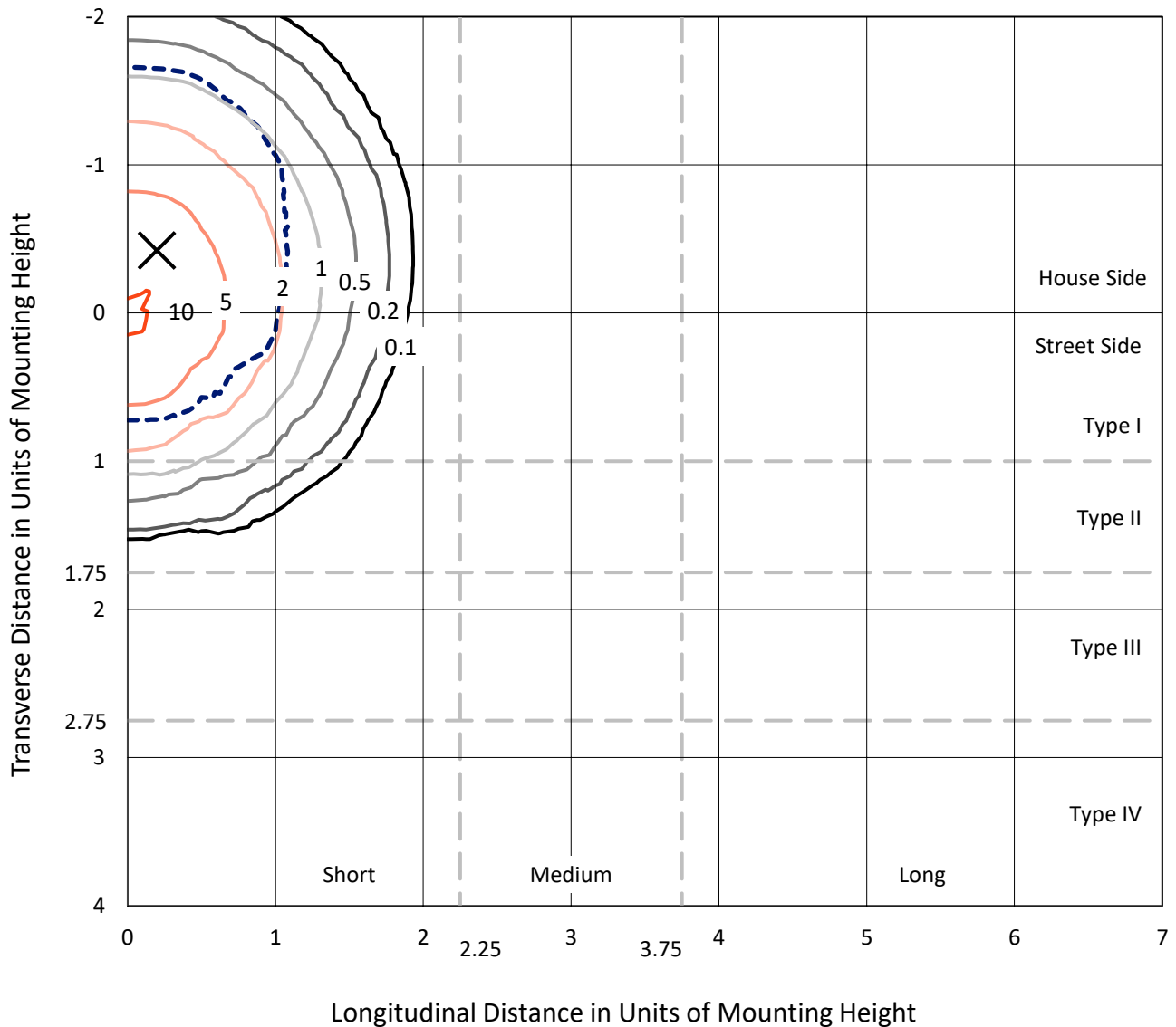
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

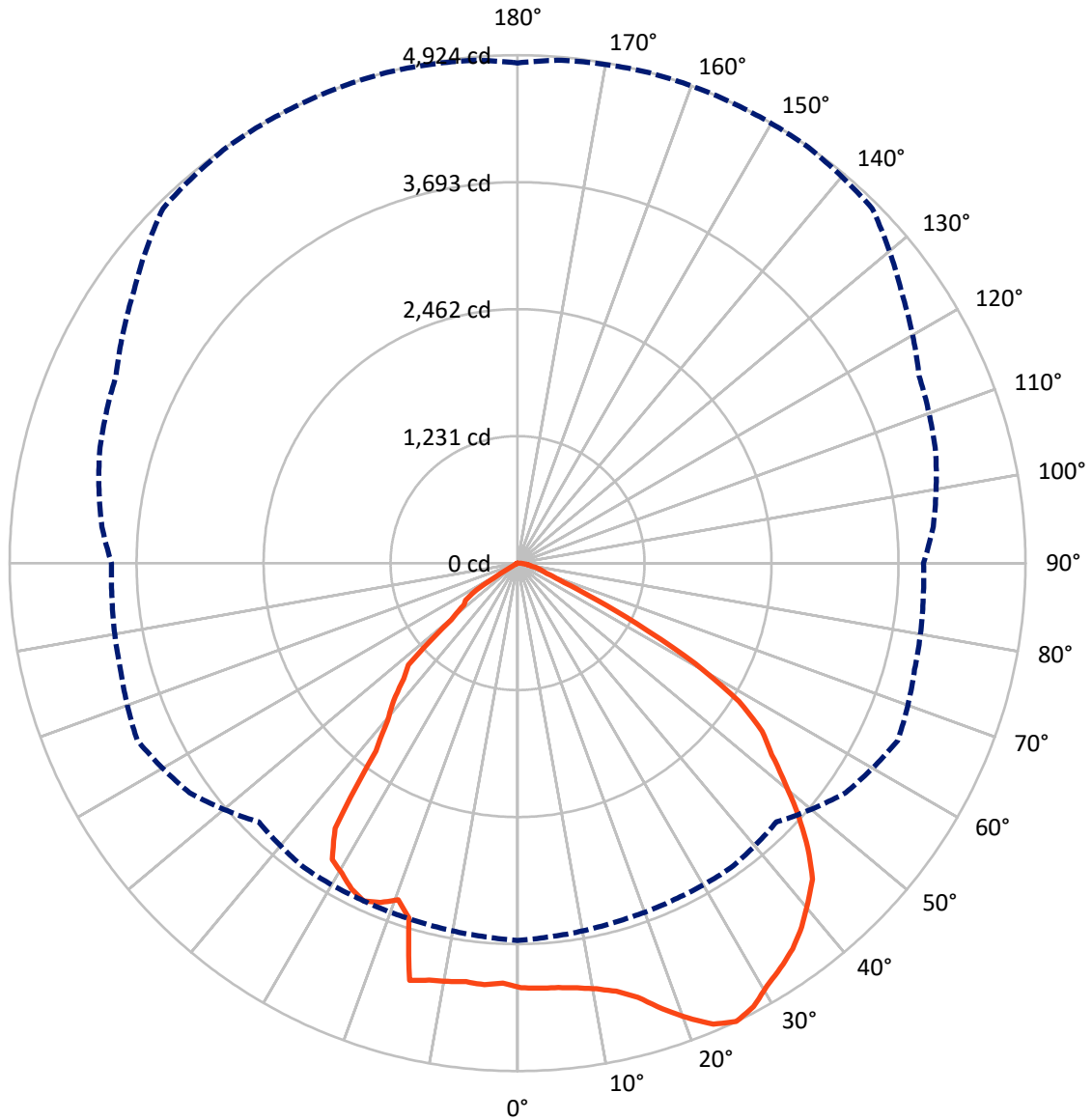
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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	5905.8	0.0	5905.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3633.5	0.0	3633.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	9539.2	0.0	9539.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	4.1
10°-20°	1205.7	12.6
20°-30°	1906.2	20.0
30°-40°	2153.2	22.6
40°-50°	2016.5	21.1
50°-60°	1390.3	14.6
60°-70°	373.5	3.9
70°-80°	77.8	0.8
80°-90°	21.0	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°	9539.2	100.0
0°-180°	9539.2	100.0



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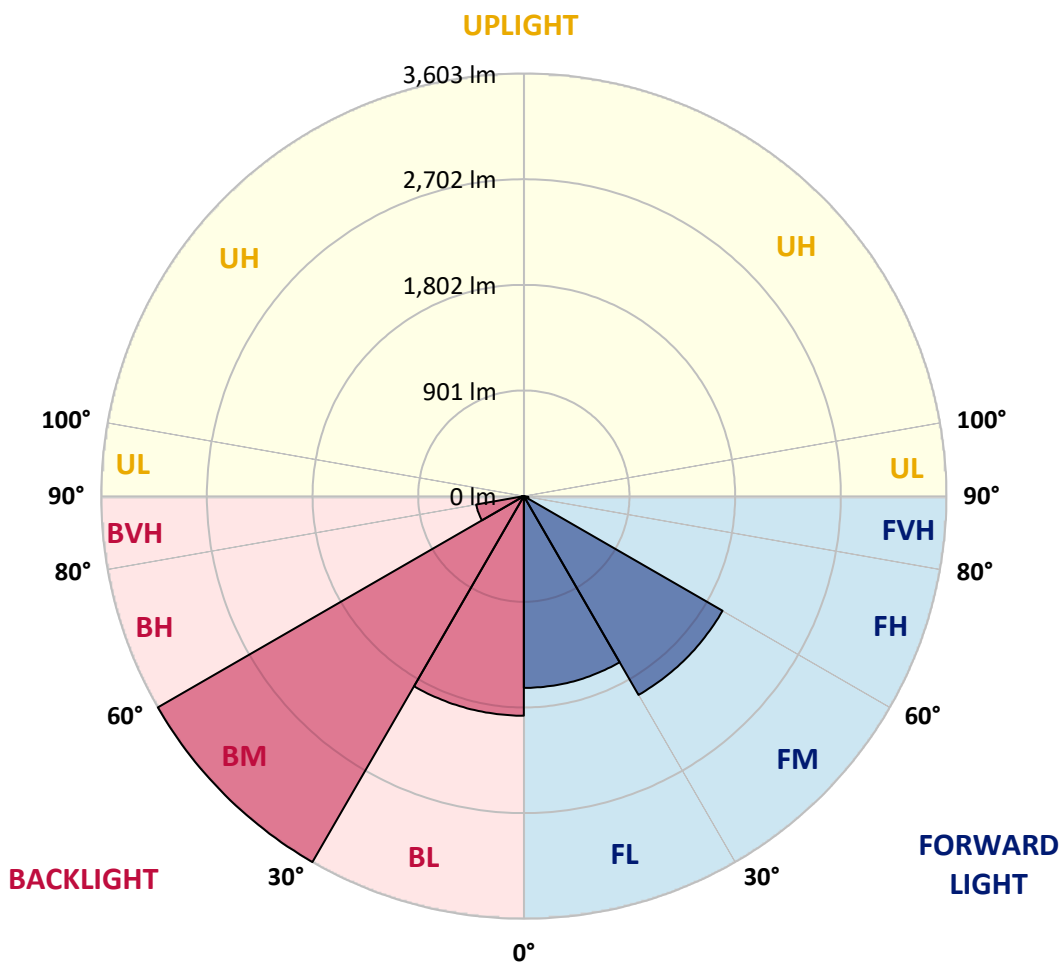
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.7	17.1			
FM (30°-60°)	1956.7	20.5			
FH (60°-80°)	39.2	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1872.1	19.6	B3/2500		
BM (30°-60°)	3603.3	37.8	B3/5000		
BH (60°-80°)	412.1	4.3	B1/500		G1/500
BVH (80°-90°)	18.2	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°	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	4134.2	4107.6	4082.4	4074.0	4109.0	4146.9	4123.0	4124.4	4116.0	4131.4
5°	4165.1	4128.6	4111.8	4099.2	4104.8	4144.1	4110.4	4123.0	4109.0	4127.2
7.5°	4153.9	4128.6	4111.8	4088.0	4106.2	4152.5	4120.2	4121.6	4114.6	4131.4
10°	4146.9	4128.6	4107.6	4110.4	4131.4	4170.7	4145.5	4159.5	4149.7	4159.5
12.5°	4163.7	4144.1	4132.8	4132.8	4151.1	4195.9	4183.3	4195.9	4191.7	4200.1
15°	4005.3	4023.5	4130.0	4177.7	4214.2	4259.0	4253.4	4266.0	4268.8	4281.4
17.5°	3378.6	3360.4	3352.0	3597.3	4249.2	4388.0	4383.8	4382.4	4368.4	4358.6
20°	3461.3	3454.3	3444.5	3462.7	3535.6	4455.3	4483.3	4310.9	4260.4	4256.2
22.5°	3593.1	3581.9	3545.4	3546.8	3569.3	3873.5	4344.5	4187.5	4170.7	4160.9
25°	3657.6	3635.2	3605.7	3597.3	3604.3	3548.2	3880.5	4067.0	3984.2	3946.4
27.5°	3544.0	3545.4	3521.6	3544.0	3517.4	3265.1	3123.5	3831.4	3828.6	3811.8
30°	3458.5	3454.3	3426.3	3454.3	3270.7	2988.9	2928.6	3573.5	3544.0	3521.6
32.5°	3196.4	3199.2	3280.5	3389.8	3088.4	2865.5	2683.3	3192.2	3471.1	3458.5
35°	2286.5	2292.1	2580.9	3120.7	2812.2	2620.2	2606.2	2759.0	3356.2	3361.8
37.5°	2201.0	2201.0	2194.0	2282.3	2594.9	2520.6	2548.7	2533.3	3074.4	3088.4
40°	2139.3	2126.7	2116.9	1978.1	1804.3	2450.5	2470.2	2400.1	2906.2	2909.0
42.5°	2065.0	2051.0	2053.8	1797.3	1615.0	2276.7	2222.0	2128.1	2625.8	2628.6
45°	1929.0	1952.9	1969.7	1572.9	1558.9	1626.2	2049.6	1990.7	2436.5	2488.4
47.5°	981.3	1002.4	1537.9	1446.8	1479.0	1445.4	1731.4	1732.8	2027.2	2199.6
50°	890.2	884.6	886.0	844.0	1365.5	1169.2	1251.9	1588.4	1623.4	1870.2
52.5°	829.9	828.5	743.0	660.3	858.0	1029.0	908.4	1149.6	1207.0	1584.2
55°	614.0	658.9	586.0	621.0	536.9	824.3	820.1	1037.4	1057.0	1270.1
57.5°	5.6	7.0	16.8	472.4	371.5	412.2	566.4	708.0	743.0	989.8
60°	1.4	2.8	7.0	14.0	241.1	253.7	378.5	409.4	461.2	590.2
62.5°	0.0	0.0	2.8	7.0	12.6	103.7	120.6	131.8	203.3	301.4
65°	0.0	0.0	1.4	4.2	7.0	16.8	29.4	61.7	88.3	109.3
67.5°	0.0	0.0	1.4	2.8	5.6	8.4	16.8	23.8	37.9	64.5
70°	0.0	0.0	1.4	2.8	4.2	7.0	11.2	16.8	22.4	32.2
72.5°	0.0	0.0	1.4	2.8	2.8	8.4	8.4	12.6	16.8	21.0
75°	0.0	0.0	1.4	1.4	2.8	5.6	8.4	9.8	11.2	16.8
77.5°	0.0	0.0	1.4	2.8	4.2	5.6	7.0	11.2	9.8	9.8
80°	0.0	0.0	1.4	4.2	4.2	7.0	8.4	11.2	7.0	7.0
82.5°	0.0	0.0	1.4	5.6	4.2	14.0	14.0	15.4	5.6	5.6
85°	0.0	0.0	4.2	2.8	8.4	14.0	12.6	8.4	7.0	4.2
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	9.8	8.4	2.8	2.8
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°
4116.0	0°	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0
4090.8	2.5°	4146.9	4128.6	4166.5	4162.3	4144.1	4135.6	4125.8	4117.4	4055.7
4093.6	5°	4148.3	4120.2	4166.5	4158.1	4155.3	4141.3	4132.8	4145.5	4089.4
4104.8	7.5°	4148.3	4120.2	4170.7	4173.5	4169.3	4158.1	4156.7	4165.1	4118.8
4124.4	10°	4176.3	4165.1	4207.1	4211.4	4205.7	4202.9	4195.9	4190.3	4141.3
4191.7	12.5°	4235.2	4212.8	4260.4	4273.0	4268.8	4275.8	4259.0	4267.4	4217.0
4260.4	15°	4306.7	4308.1	4344.5	4372.6	4369.8	4392.2	4367.0	4389.4	4352.9
4338.9	17.5°	4416.0	4431.5	4483.3	4525.4	4540.8	4557.6	4540.8	4547.8	4495.9
4252.0	20°	4301.1	4358.6	4608.1	4685.2	4717.4	4732.9	4704.8	4713.2	4661.4
4145.5	22.5°	4197.3	4271.6	4493.1	4734.3	4833.8	4864.6	4854.8	4853.4	4833.8
3935.2	25°	4044.5	4194.5	4294.1	4549.2	4861.8	4917.9	4923.5	4922.1	4892.7
3806.2	27.5°	3856.7	3890.3	4148.3	4303.9	4665.6	4878.7	4870.3	4829.6	4790.3
3538.4	30°	3616.9	3769.7	3886.1	4134.2	4411.8	4758.1	4758.1	4727.3	4686.6
3443.1	32.5°	3495.0	3692.6	3800.6	3890.3	4127.2	4623.5	4679.6	4647.3	4615.1
3368.8	35°	3430.5	3459.9	3712.3	3793.6	3994.1	4364.2	4591.3	4559.0	4535.2
3171.1	37.5°	3288.9	3357.6	3475.3	3692.6	3754.3	4152.5	4473.5	4456.7	4428.6
2914.6	40°	2973.5	3157.1	3338.0	3544.0	3608.5	3880.5	4330.5	4337.5	4299.7
2641.2	42.5°	2787.0	2911.8	3195.0	3333.8	3507.6	3705.3	4191.7	4202.9	4176.3
2502.4	45°	2568.3	2707.1	2906.2	3158.5	3395.4	3464.1	3946.4	4064.2	4041.7
2226.2	47.5°	2367.8	2480.0	2723.9	2979.1	3241.2	3231.4	3664.6	3886.1	3855.3
2014.6	50°	2083.2	2279.5	2394.5	2628.6	3019.7	3046.4	3364.6	3677.2	3652.0
1711.7	52.5°	1756.6	2003.3	2223.4	2437.9	2795.4	2858.5	3085.6	3464.1	3447.3
1308.0	55°	1535.1	1714.5	1962.7	2135.1	2523.4	2691.7	2876.7	3260.9	3252.4
1075.3	57.5°	1092.1	1438.4	1643.0	1884.2	2088.9	2393.1	2530.5	2847.3	2768.8
595.8	60°	740.2	902.8	1152.4	1411.7	1549.1	1853.3	1980.9	2234.7	2213.6
356.1	62.5°	391.1	541.1	719.2	849.6	949.1	1244.9	1298.2	1571.5	1564.5
143.0	65°	172.4	228.5	389.7	457.0	559.4	696.8	743.0	841.1	817.3
70.1	67.5°	89.7	136.0	220.1	270.6	340.7	392.5	430.4	461.2	480.9
46.3	70°	54.7	99.5	136.0	187.9	234.1	276.2	305.6	347.7	372.9
23.8	72.5°	40.7	63.1	93.9	144.4	169.6	218.7	248.1	279.0	301.4
19.6	75°	22.4	42.1	75.7	113.6	136.0	178.0	204.7	225.7	232.7
11.2	77.5°	14.0	32.2	63.1	88.3	106.5	144.4	137.4	157.0	173.8
8.4	80°	9.8	23.8	49.1	72.9	74.3	92.5	109.3	126.2	137.4
5.6	82.5°	7.0	19.6	36.4	56.1	49.1	71.5	85.5	98.1	71.5
4.2	85°	5.6	14.0	18.2	33.6	28.0	50.5	43.5	42.1	28.0
2.8	87.5°	4.2	7.0	12.6	15.4	11.2	11.2	14.0	16.8	14.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4116.0
4013.7
4041.7
4065.6
4100.6
4172.1
4292.7
4451.1
4624.9
4770.7
4847.8
4759.5
4671.2
4588.5
4501.5
4400.6
4291.3
4173.5
4044.5
3877.7
3656.2
3458.5
3262.3
2760.4
2215.0
1565.9
807.5
480.9
374.3
305.6
228.5
176.6
138.8
51.9
28.0
14.0
0.0

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