

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: P638334

Luminaire Tested: **IFLD-S-SA2C-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638334
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8760.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

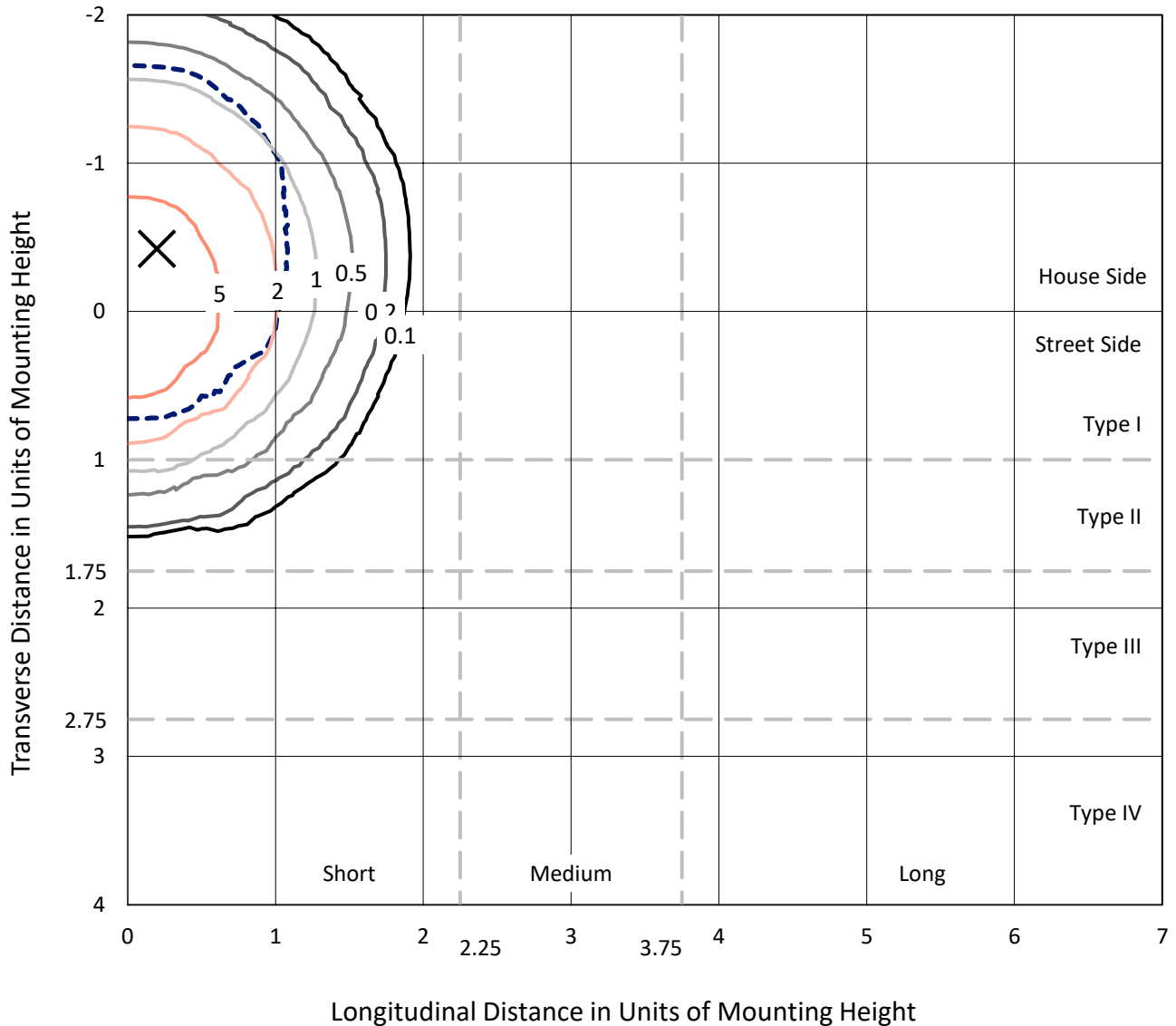
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

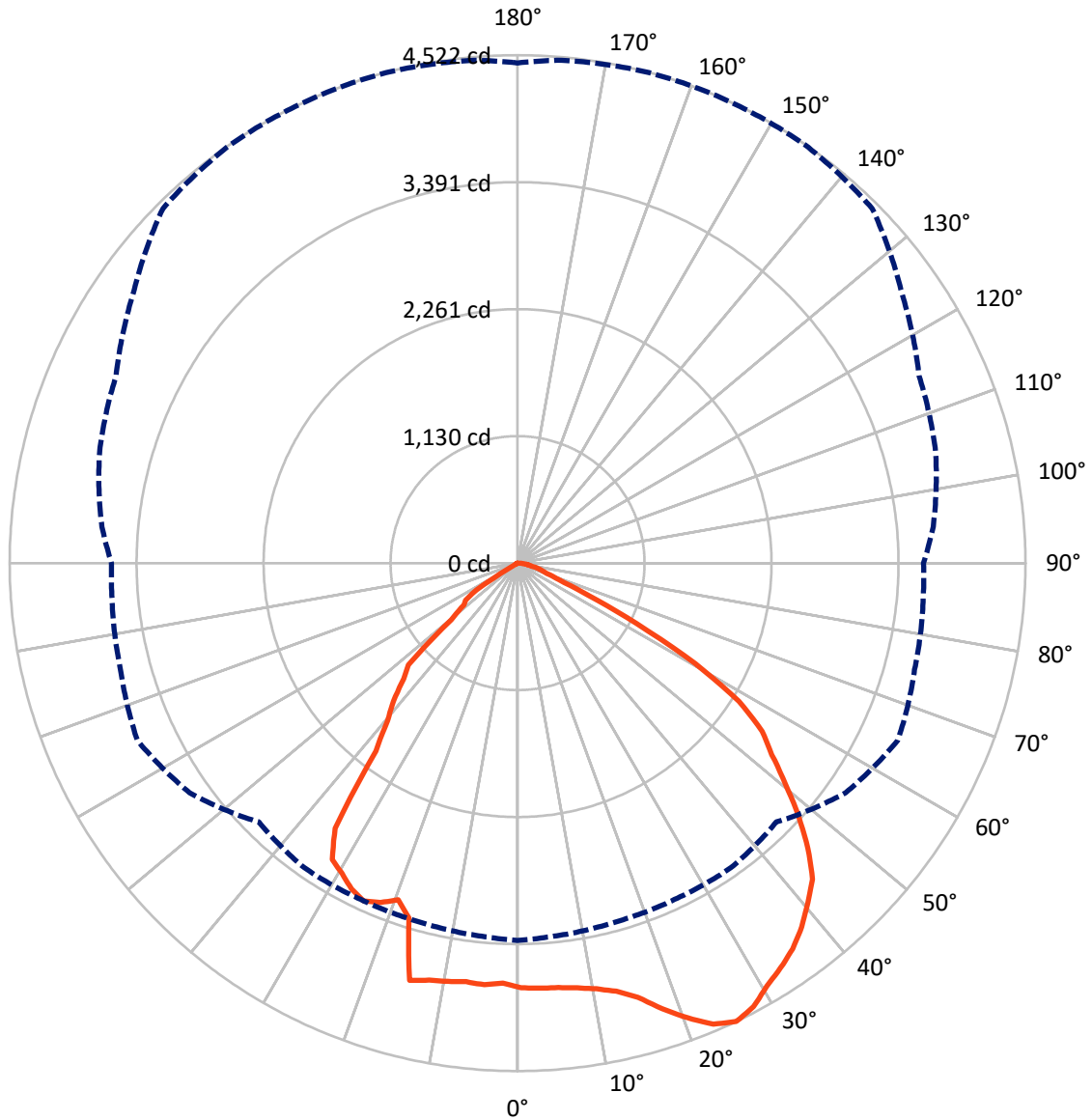
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	5423.9	0.0	5423.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3337.0	0.0	3337.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	8760.9	0.0	8760.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	4.1
10°-20°	1107.4	12.6
20°-30°	1750.7	20.0
30°-40°	1977.5	22.6
40°-50°	1852.0	21.1
50°-60°	1276.8	14.6
60°-70°	343.0	3.9
70°-80°	71.5	0.8
80°-90°	19.4	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°	8760.9	100.0
0°-180°	8760.9	100.0



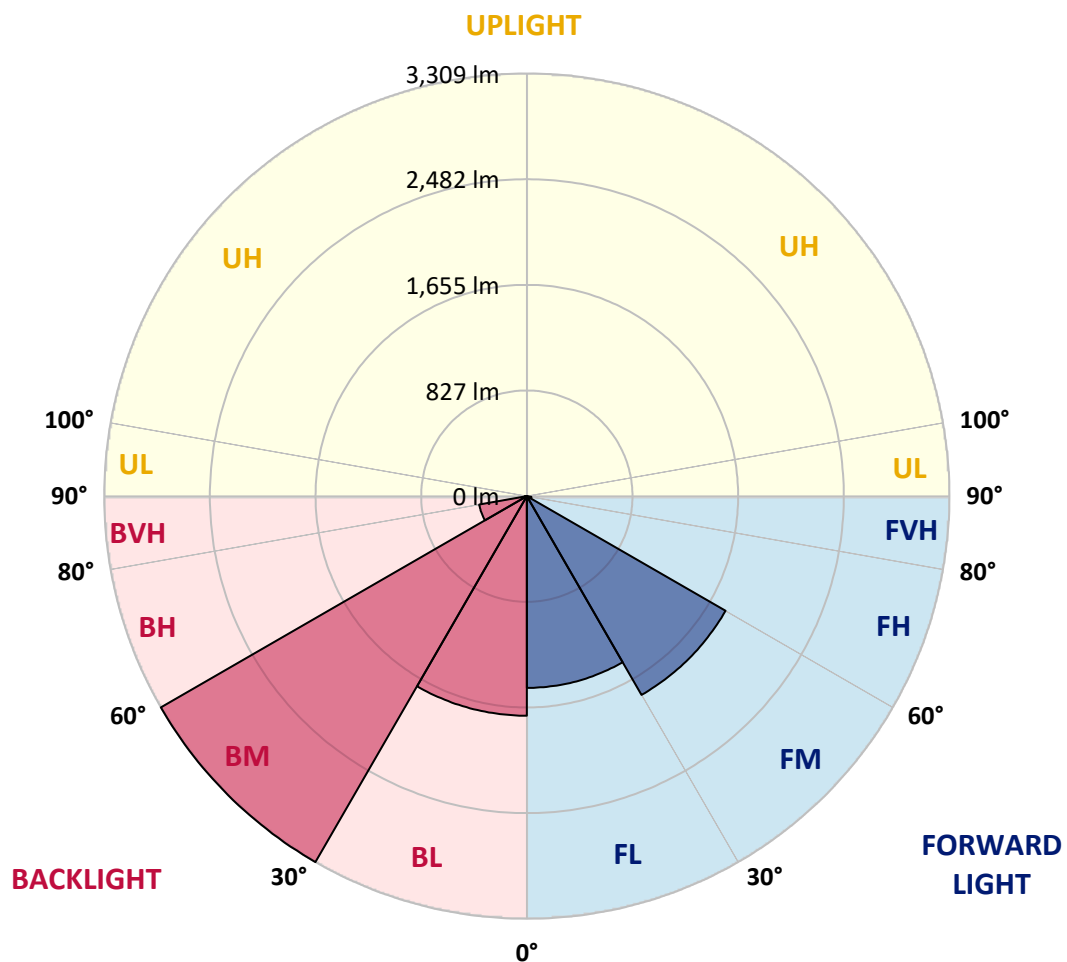
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.3	17.1			
FM (30°-60°)	1797.1	20.5			
FH (60°-80°)	36.0	0.4			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1719.3	19.6	B3/2500		
BM (30°-60°)	3309.3	37.8	B3/5000		
BH (60°-80°)	378.5	4.3	B1/500		G1/500
BVH (80°-90°)	16.7	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°	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2
2.5°	3796.9	3772.5	3749.3	3741.6	3773.7	3808.5	3786.6	3787.9	3780.2	3794.3
5°	3825.2	3791.8	3776.3	3764.7	3769.9	3805.9	3775.0	3786.6	3773.7	3790.5
7.5°	3814.9	3791.8	3776.3	3754.4	3771.2	3813.7	3784.0	3785.3	3778.9	3794.3
10°	3808.5	3791.8	3772.5	3775.0	3794.3	3830.4	3807.2	3820.1	3811.1	3820.1
12.5°	3824.0	3805.9	3795.6	3795.6	3812.4	3853.6	3842.0	3853.6	3849.7	3857.4
15°	3678.5	3695.2	3793.1	3836.8	3870.3	3911.5	3906.4	3917.9	3920.5	3932.1
17.5°	3102.9	3086.2	3078.5	3303.8	3902.5	4030.0	4026.1	4024.8	4011.9	4002.9
20°	3178.9	3172.5	3163.5	3180.2	3247.1	4091.8	4117.5	3959.1	3912.8	3908.9
22.5°	3299.9	3289.6	3256.2	3257.4	3278.0	3557.4	3990.0	3845.8	3830.4	3821.4
25°	3359.2	3338.6	3311.5	3303.8	3310.2	3258.7	3563.9	3735.1	3659.1	3624.4
27.5°	3254.9	3256.2	3234.3	3254.9	3230.4	2998.6	2868.6	3518.8	3516.2	3500.8
30°	3176.3	3172.5	3146.7	3172.5	3003.8	2745.0	2689.6	3281.9	3254.9	3234.3
32.5°	2935.6	2938.1	3012.8	3113.2	2836.4	2631.7	2464.3	2931.7	3187.9	3176.3
35°	2100.0	2105.1	2370.3	2866.0	2582.8	2406.4	2393.5	2533.9	3082.3	3087.5
37.5°	2021.4	2021.4	2015.0	2096.1	2383.2	2315.0	2340.7	2326.6	2823.5	2836.4
40°	1964.8	1953.2	1944.2	1816.7	1657.0	2250.6	2268.6	2204.2	2669.0	2671.6
42.5°	1896.5	1883.7	1886.2	1650.6	1483.2	2090.9	2040.7	1954.5	2411.5	2414.1
45°	1771.6	1793.5	1809.0	1444.6	1431.7	1493.5	1882.4	1828.3	2237.7	2285.4
47.5°	901.3	920.6	1412.4	1328.7	1358.3	1327.4	1590.1	1591.4	1861.8	2020.1
50°	817.6	812.4	813.7	775.1	1254.1	1073.8	1149.8	1458.8	1491.0	1717.6
52.5°	762.2	760.9	682.4	606.4	788.0	945.0	834.3	1055.8	1108.6	1454.9
55°	563.9	605.1	538.2	570.4	493.1	757.1	753.2	952.8	970.8	1166.5
57.5°	5.2	6.4	15.5	433.9	341.2	378.5	520.2	650.2	682.4	909.0
60°	1.3	2.6	6.4	12.9	221.5	233.0	347.6	376.0	423.6	542.0
62.5°	0.0	0.0	2.6	6.4	11.6	95.3	110.7	121.0	186.7	276.8
65°	0.0	0.0	1.3	3.9	6.4	15.5	27.0	56.7	81.1	100.4
67.5°	0.0	0.0	1.3	2.6	5.2	7.7	15.5	21.9	34.8	59.2
70°	0.0	0.0	1.3	2.6	3.9	6.4	10.3	15.5	20.6	29.6
72.5°	0.0	0.0	1.3	2.6	2.6	7.7	7.7	11.6	15.5	19.3
75°	0.0	0.0	1.3	1.3	2.6	5.2	7.7	9.0	10.3	15.5
77.5°	0.0	0.0	1.3	2.6	3.9	5.2	6.4	10.3	9.0	9.0
80°	0.0	0.0	1.3	3.9	3.9	6.4	7.7	10.3	6.4	6.4
82.5°	0.0	0.0	1.3	5.2	3.9	12.9	12.9	14.2	5.2	5.2
85°	0.0	0.0	3.9	2.6	7.7	12.9	11.6	7.7	6.4	3.9
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	9.0	7.7	2.6	2.6
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°
3780.2	0°	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2	3780.2
3757.0	2.5°	3808.5	3791.8	3826.5	3822.7	3805.9	3798.2	3789.2	3781.5	3724.8
3759.6	5°	3809.8	3784.0	3826.5	3818.8	3816.2	3803.4	3795.6	3807.2	3755.7
3769.9	7.5°	3809.8	3784.0	3830.4	3833.0	3829.1	3818.8	3817.5	3825.2	3782.8
3787.9	10°	3835.5	3825.2	3863.9	3867.7	3862.6	3860.0	3853.6	3848.4	3803.4
3849.7	12.5°	3889.6	3869.0	3912.8	3924.4	3920.5	3927.0	3911.5	3919.2	3872.9
3912.8	15°	3955.3	3956.6	3990.0	4015.8	4013.2	4033.8	4010.6	4031.2	3997.8
3984.9	17.5°	4055.7	4069.9	4117.5	4156.1	4170.3	4185.7	4170.3	4176.7	4129.1
3905.1	20°	3950.1	4002.9	4232.1	4302.9	4332.5	4346.7	4320.9	4328.7	4281.0
3807.2	22.5°	3854.9	3923.1	4126.5	4348.0	4439.4	4467.7	4458.7	4457.4	4439.4
3614.1	25°	3714.5	3852.3	3943.7	4178.0	4465.1	4516.6	4521.8	4520.5	4493.5
3495.6	27.5°	3542.0	3572.9	3809.8	3952.7	4284.9	4480.6	4472.9	4435.5	4399.5
3249.7	30°	3321.8	3462.2	3569.0	3796.9	4051.8	4369.9	4369.9	4341.5	4304.2
3162.2	32.5°	3209.8	3391.3	3490.5	3572.9	3790.5	4246.3	4297.8	4268.1	4238.5
3093.9	35°	3150.6	3177.6	3409.4	3484.0	3668.2	4008.1	4216.6	4187.0	4165.1
2912.4	37.5°	3020.5	3083.6	3191.8	3391.3	3448.0	3813.7	4108.5	4093.0	4067.3
2676.8	40°	2730.8	2899.5	3065.6	3254.9	3314.1	3563.9	3977.2	3983.6	3948.8
2425.7	42.5°	2559.6	2674.2	2934.3	3061.7	3221.4	3402.9	3849.7	3860.0	3835.5
2298.2	45°	2358.7	2486.2	2669.0	2900.8	3118.4	3181.5	3624.4	3732.5	3711.9
2044.6	47.5°	2174.6	2277.6	2501.7	2736.0	2976.8	2967.7	3365.6	3569.0	3540.7
1850.2	50°	1913.3	2093.5	2199.1	2414.1	2773.3	2797.8	3090.1	3377.2	3354.0
1572.1	52.5°	1613.3	1839.9	2042.0	2239.0	2567.3	2625.3	2833.8	3181.5	3166.0
1201.3	55°	1409.8	1574.6	1802.5	1960.9	2317.5	2472.0	2642.0	2994.8	2987.1
987.5	57.5°	1003.0	1321.0	1509.0	1730.4	1918.4	2197.8	2324.0	2615.0	2542.9
547.2	60°	679.8	829.2	1058.3	1296.5	1422.7	1702.1	1819.3	2052.3	2033.0
327.0	62.5°	359.2	497.0	660.5	780.2	871.7	1143.3	1192.2	1443.3	1436.9
131.3	65°	158.4	209.9	357.9	419.7	513.7	639.9	682.4	772.5	750.6
64.4	67.5°	82.4	124.9	202.1	248.5	312.9	360.5	395.3	423.6	441.6
42.5	70°	50.2	91.4	124.9	172.5	215.0	253.6	280.7	319.3	342.5
21.9	72.5°	37.3	57.9	86.3	132.6	155.8	200.9	227.9	256.2	276.8
18.0	75°	20.6	38.6	69.5	104.3	124.9	163.5	188.0	207.3	213.7
10.3	77.5°	12.9	29.6	57.9	81.1	97.9	132.6	126.2	144.2	159.7
7.7	80°	9.0	21.9	45.1	67.0	68.2	85.0	100.4	115.9	126.2
5.2	82.5°	6.4	18.0	33.5	51.5	45.1	65.7	78.5	90.1	65.7
3.9	85°	5.2	12.9	16.7	30.9	25.8	46.4	39.9	38.6	25.8
2.6	87.5°	3.9	6.4	11.6	14.2	10.3	10.3	12.9	15.5	12.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3780.2
3686.2
3711.9
3733.8
3766.0
3831.7
3942.4
4087.9
4247.5
4381.5
4452.3
4371.2
4290.0
4214.1
4134.2
4041.5
3941.1
3833.0
3714.5
3561.3
3357.9
3176.3
2996.1
2535.1
2034.3
1438.2
741.6
441.6
343.8
280.7
209.9
162.2
127.5
47.6
25.8
12.9
0.0

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