

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: P638508

Luminaire Tested: **IFLD-S-SA2C-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7700.8 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

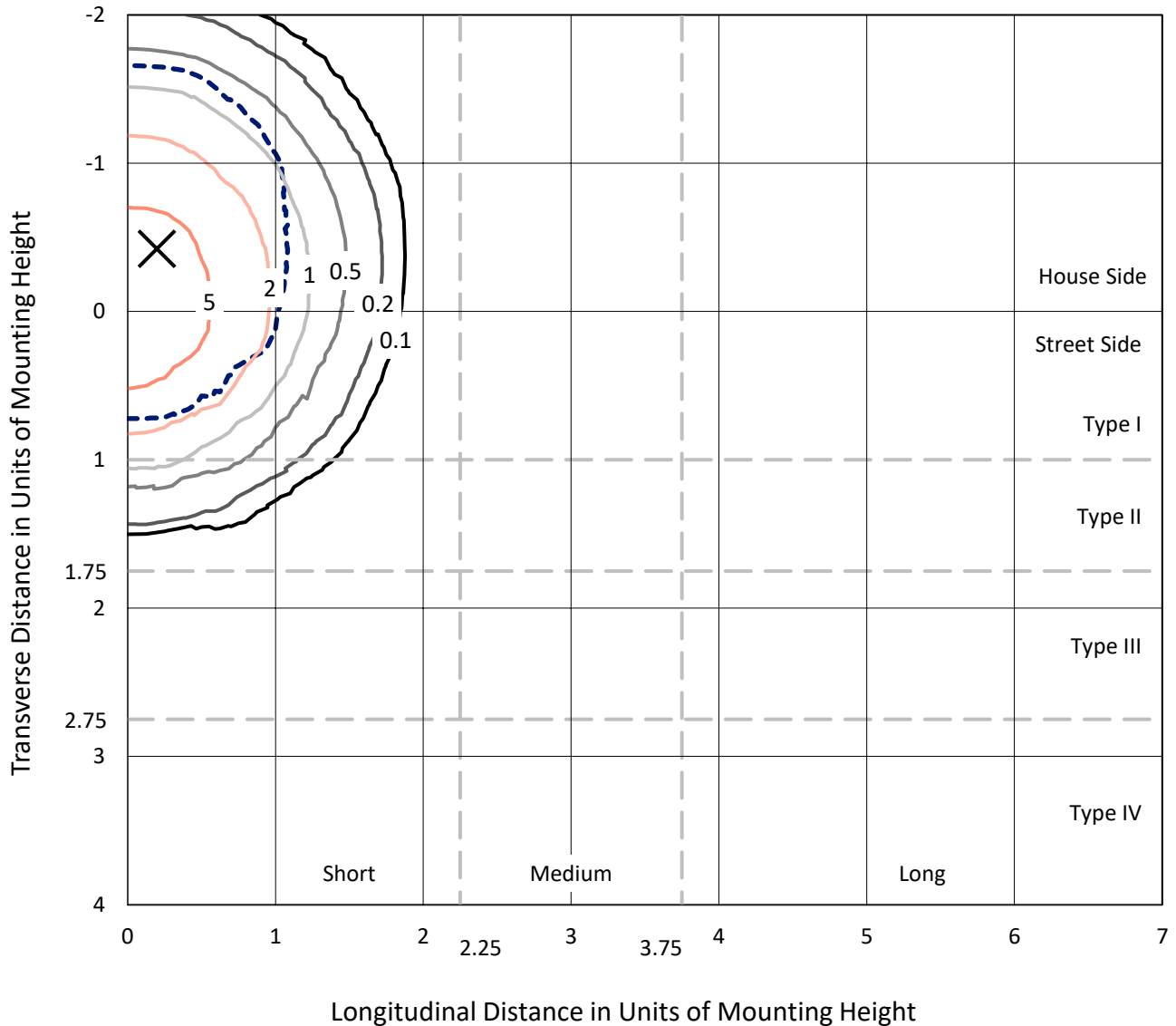
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

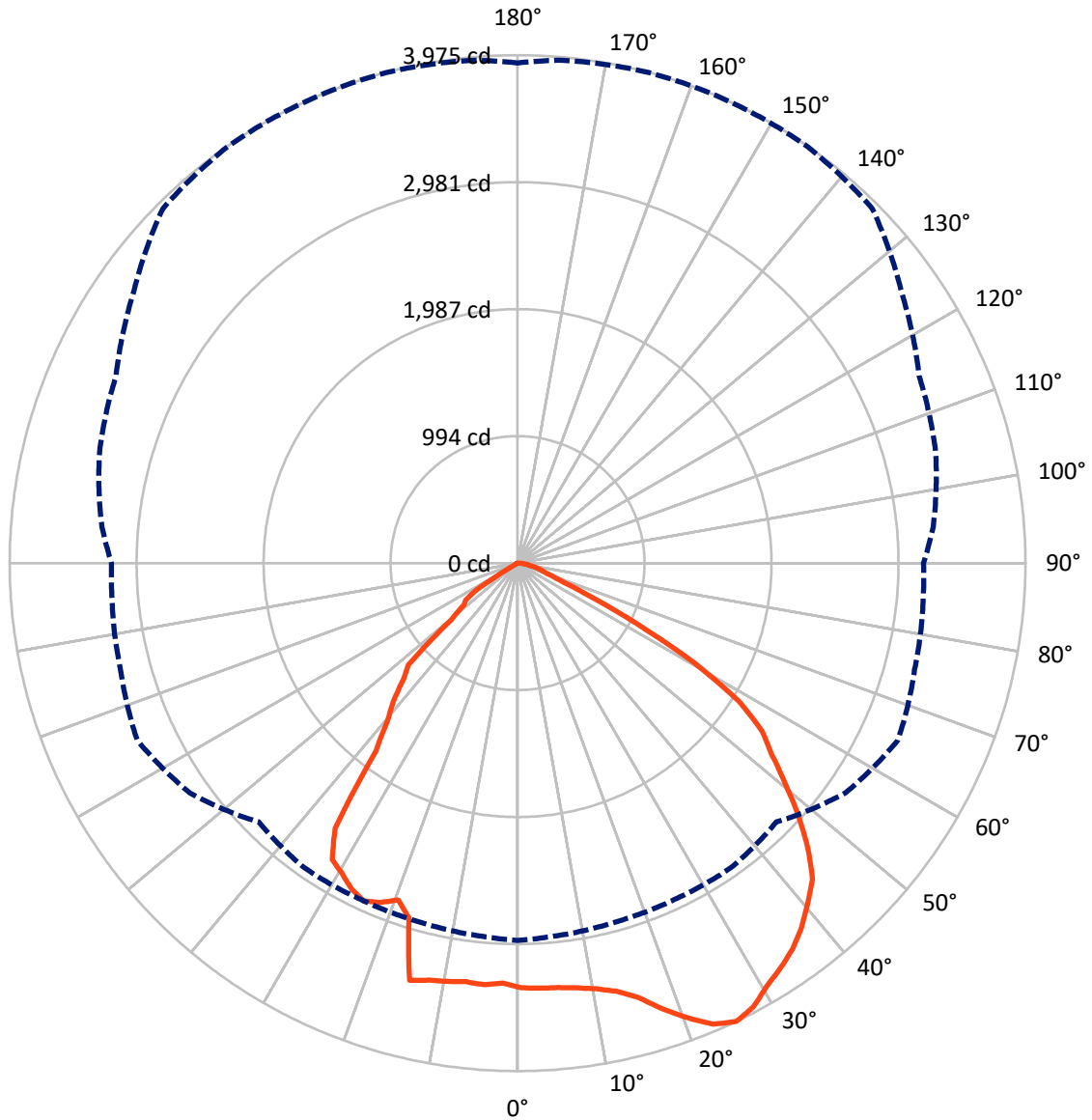
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	4767.6	0.0	4767.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2933.2	0.0	2933.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	7700.8	0.0	7700.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	4.1
10°-20°	973.4	12.6
20°-30°	1538.8	20.0
30°-40°	1738.2	22.6
40°-50°	1627.9	21.1
50°-60°	1122.3	14.6
60°-70°	301.5	3.9
70°-80°	62.8	0.8
80°-90°	17.0	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°	7700.8	100.0
0°-180°	7700.8	100.0



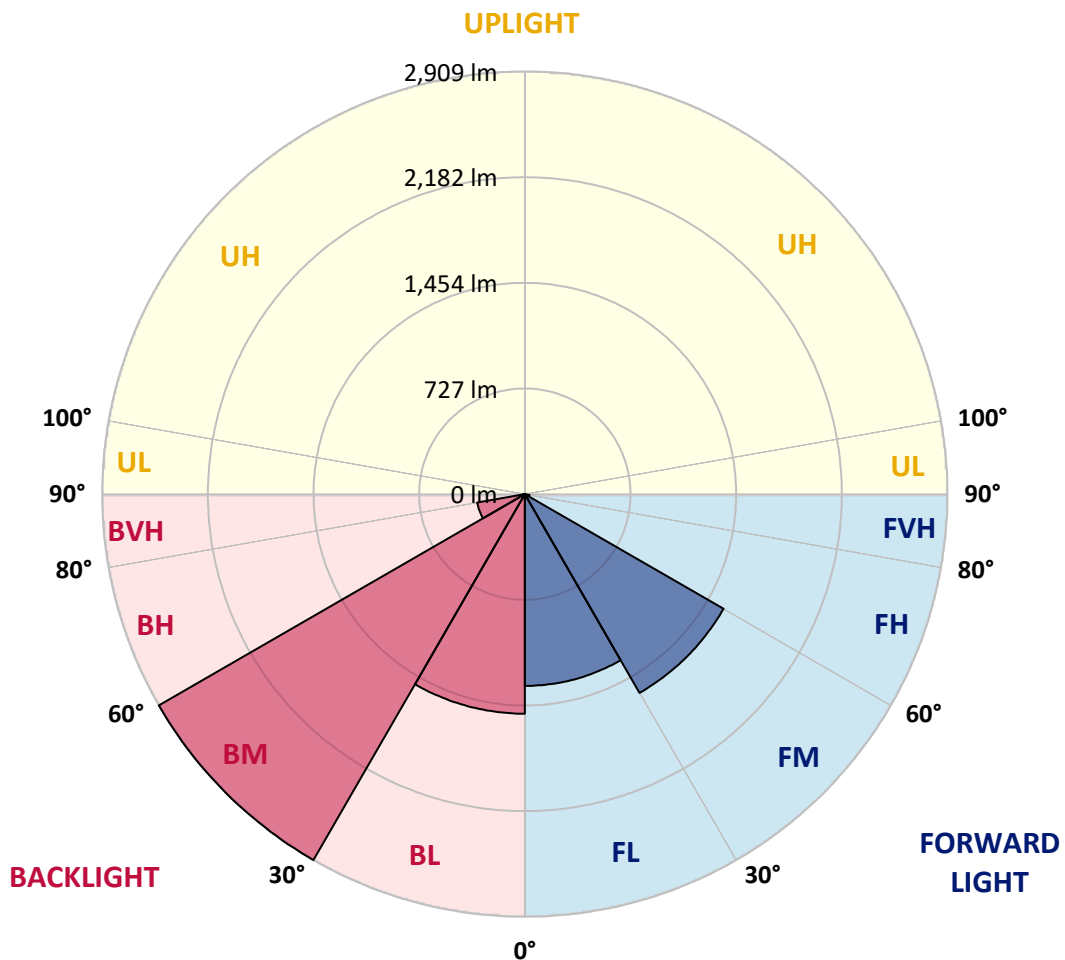
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.7	17.1			
FM	(30°-60°)	1579.6	20.5			
FH	(60°-80°)	31.7	0.4			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	1511.3	19.6	B3/2500		
BM	(30°-60°)	2908.8	37.8	B3/5000		
BH	(60°-80°)	332.7	4.3	B1/500		G1/500
BVH	(80°-90°)	14.7	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°	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7
2.5°	3337.5	3315.9	3295.6	3288.8	3317.1	3347.6	3328.4	3329.5	3322.7	3335.2
5°	3362.4	3332.9	3319.3	3309.2	3313.7	3345.4	3318.2	3328.4	3317.1	3331.8
7.5°	3353.3	3332.9	3319.3	3300.1	3314.8	3352.2	3326.1	3327.3	3321.6	3335.2
10°	3347.6	3332.9	3315.9	3318.2	3335.2	3366.9	3346.5	3357.8	3349.9	3357.8
12.5°	3361.2	3345.4	3336.3	3336.3	3351.0	3387.2	3377.1	3387.2	3383.9	3390.6
15°	3233.3	3248.0	3334.1	3372.5	3402.0	3438.2	3433.6	3443.8	3446.1	3456.3
17.5°	2727.5	2712.7	2706.0	2904.0	3430.3	3542.3	3538.9	3537.8	3526.5	3518.5
20°	2794.2	2788.6	2780.6	2795.4	2854.2	3596.6	3619.3	3480.0	3439.3	3435.9
22.5°	2900.6	2891.6	2862.1	2863.3	2881.4	3127.0	3507.2	3380.5	3366.9	3359.0
25°	2952.7	2934.6	2910.8	2904.0	2909.7	2864.4	3132.6	3283.1	3216.4	3185.8
27.5°	2861.0	2862.1	2842.9	2861.0	2839.5	2635.8	2521.5	3093.0	3090.7	3077.2
30°	2792.0	2788.6	2765.9	2788.6	2640.3	2412.8	2364.2	2884.8	2861.0	2842.9
32.5°	2580.3	2582.6	2648.2	2736.5	2493.2	2313.2	2166.1	2576.9	2802.1	2792.0
35°	1845.8	1850.4	2083.5	2519.2	2270.2	2115.2	2103.9	2227.2	2709.3	2713.9
37.5°	1776.8	1776.8	1771.1	1842.4	2094.8	2034.8	2057.5	2045.0	2481.9	2493.2
40°	1727.0	1716.8	1708.9	1596.9	1456.5	1978.3	1994.1	1937.5	2346.1	2348.3
42.5°	1667.0	1655.7	1658.0	1450.9	1303.7	1837.9	1793.8	1718.0	2119.7	2122.0
45°	1557.3	1576.5	1590.1	1269.8	1258.5	1312.8	1654.6	1607.0	1966.9	2008.8
47.5°	792.2	809.2	1241.5	1167.9	1194.0	1166.8	1397.7	1398.8	1636.5	1775.7
50°	718.6	714.1	715.2	681.3	1102.3	943.9	1010.6	1282.2	1310.5	1509.7
52.5°	670.0	668.8	599.8	533.0	692.6	830.7	733.4	928.0	974.4	1278.8
55°	495.7	531.9	473.1	501.4	433.5	665.5	662.1	837.5	853.3	1025.3
57.5°	4.5	5.7	13.6	381.4	299.9	332.7	457.2	571.5	599.8	799.0
60°	1.1	2.3	5.7	11.3	194.7	204.8	305.6	330.5	372.3	476.5
62.5°	0.0	0.0	2.3	5.7	10.2	83.7	97.3	106.4	164.1	243.3
65°	0.0	0.0	1.1	3.4	5.7	13.6	23.8	49.8	71.3	88.3
67.5°	0.0	0.0	1.1	2.3	4.5	6.8	13.6	19.2	30.6	52.1
70°	0.0	0.0	1.1	2.3	3.4	5.7	9.1	13.6	18.1	26.0
72.5°	0.0	0.0	1.1	2.3	2.3	6.8	6.8	10.2	13.6	17.0
75°	0.0	0.0	1.1	1.1	2.3	4.5	6.8	7.9	9.1	13.6
77.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	9.1	7.9	7.9
80°	0.0	0.0	1.1	3.4	3.4	5.7	6.8	9.1	5.7	5.7
82.5°	0.0	0.0	1.1	4.5	3.4	11.3	11.3	12.4	4.5	4.5
85°	0.0	0.0	3.4	2.3	6.8	11.3	10.2	6.8	5.7	3.4
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	7.9	6.8	2.3	2.3
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°
3322.7	0°	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7	3322.7
3302.4	2.5°	3347.6	3332.9	3363.5	3360.1	3345.4	3338.6	3330.7	3323.9	3274.1
3304.6	5°	3348.8	3326.1	3363.5	3356.7	3354.4	3343.1	3336.3	3346.5	3301.2
3313.7	7.5°	3348.8	3326.1	3366.9	3369.1	3365.7	3356.7	3355.6	3362.4	3325.0
3329.5	10°	3371.4	3362.4	3396.3	3399.7	3395.2	3392.9	3387.2	3382.7	3343.1
3383.9	12.5°	3418.9	3400.8	3439.3	3449.5	3446.1	3451.8	3438.2	3445.0	3404.2
3439.3	15°	3476.7	3477.8	3507.2	3529.8	3527.6	3545.7	3525.3	3543.4	3514.0
3502.7	17.5°	3564.9	3577.4	3619.3	3653.2	3665.7	3679.2	3665.7	3671.3	3629.4
3432.5	20°	3472.1	3518.5	3720.0	3782.2	3808.2	3820.7	3798.1	3804.9	3763.0
3346.5	22.5°	3388.4	3448.4	3627.2	3821.8	3902.2	3927.1	3919.2	3918.0	3902.2
3176.7	25°	3265.0	3386.1	3466.5	3672.4	3924.8	3970.1	3974.6	3973.5	3949.7
3072.6	27.5°	3113.4	3140.5	3348.8	3474.4	3766.4	3938.4	3931.6	3898.8	3867.1
2856.5	30°	2919.8	3043.2	3137.1	3337.5	3561.5	3841.1	3841.1	3816.2	3783.4
2779.5	32.5°	2821.4	2981.0	3068.1	3140.5	3331.8	3732.4	3777.7	3751.7	3725.6
2719.5	35°	2769.3	2793.1	2996.8	3062.4	3224.3	3523.1	3706.4	3680.4	3661.1
2560.0	37.5°	2655.0	2710.5	2805.5	2981.0	3030.8	3352.2	3611.3	3597.7	3575.1
2352.9	40°	2400.4	2548.6	2694.6	2861.0	2913.1	3132.6	3495.9	3501.6	3471.0
2132.2	42.5°	2249.9	2350.6	2579.2	2691.2	2831.6	2991.1	3383.9	3392.9	3371.4
2020.1	45°	2073.3	2185.4	2346.1	2549.8	2741.0	2796.5	3185.8	3280.9	3262.8
1797.2	47.5°	1911.5	2002.0	2198.9	2404.9	2616.5	2608.6	2958.3	3137.1	3112.2
1626.3	50°	1681.7	1840.2	1933.0	2122.0	2437.7	2459.2	2716.1	2968.5	2948.1
1381.8	52.5°	1418.0	1617.2	1794.9	1968.1	2256.7	2307.6	2490.9	2796.5	2782.9
1055.9	55°	1239.2	1384.1	1584.4	1723.6	2037.1	2172.9	2322.3	2632.4	2625.6
868.0	57.5°	881.6	1161.1	1326.4	1521.0	1686.3	1931.9	2042.8	2298.5	2235.2
481.0	60°	597.5	728.8	930.3	1139.6	1250.6	1496.1	1599.1	1804.0	1787.0
287.5	62.5°	315.8	436.8	580.6	685.8	766.2	1005.0	1048.0	1268.7	1263.0
115.4	65°	139.2	184.5	314.6	368.9	451.6	562.5	599.8	679.0	659.8
56.6	67.5°	72.4	109.8	177.7	218.4	275.0	316.9	347.4	372.3	388.2
37.3	70°	44.1	80.4	109.8	151.7	189.0	222.9	246.7	280.7	301.0
19.2	72.5°	32.8	50.9	75.8	116.6	136.9	176.5	200.3	225.2	243.3
15.8	75°	18.1	34.0	61.1	91.7	109.8	143.7	165.2	182.2	187.9
9.1	77.5°	11.3	26.0	50.9	71.3	86.0	116.6	110.9	126.8	140.3
6.8	80°	7.9	19.2	39.6	58.8	60.0	74.7	88.3	101.9	110.9
4.5	82.5°	5.7	15.8	29.4	45.3	39.6	57.7	69.0	79.2	57.7
3.4	85°	4.5	11.3	14.7	27.2	22.6	40.7	35.1	34.0	22.6
2.3	87.5°	3.4	5.7	10.2	12.4	9.1	9.1	11.3	13.6	11.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3322.7
3240.1
3262.8
3282.0
3310.3
3368.0
3465.3
3593.2
3733.6
3851.3
3913.5
3842.2
3770.9
3704.1
3634.0
3552.5
3464.2
3369.1
3265.0
3130.3
2951.5
2792.0
2633.5
2228.4
1788.1
1264.1
651.9
388.2
302.2
246.7
184.5
142.6
112.0
41.9
22.6
11.3
0.0

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