

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: P636914

Luminaire Tested: **IFLD-S-SA2D-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636914
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7653.8 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

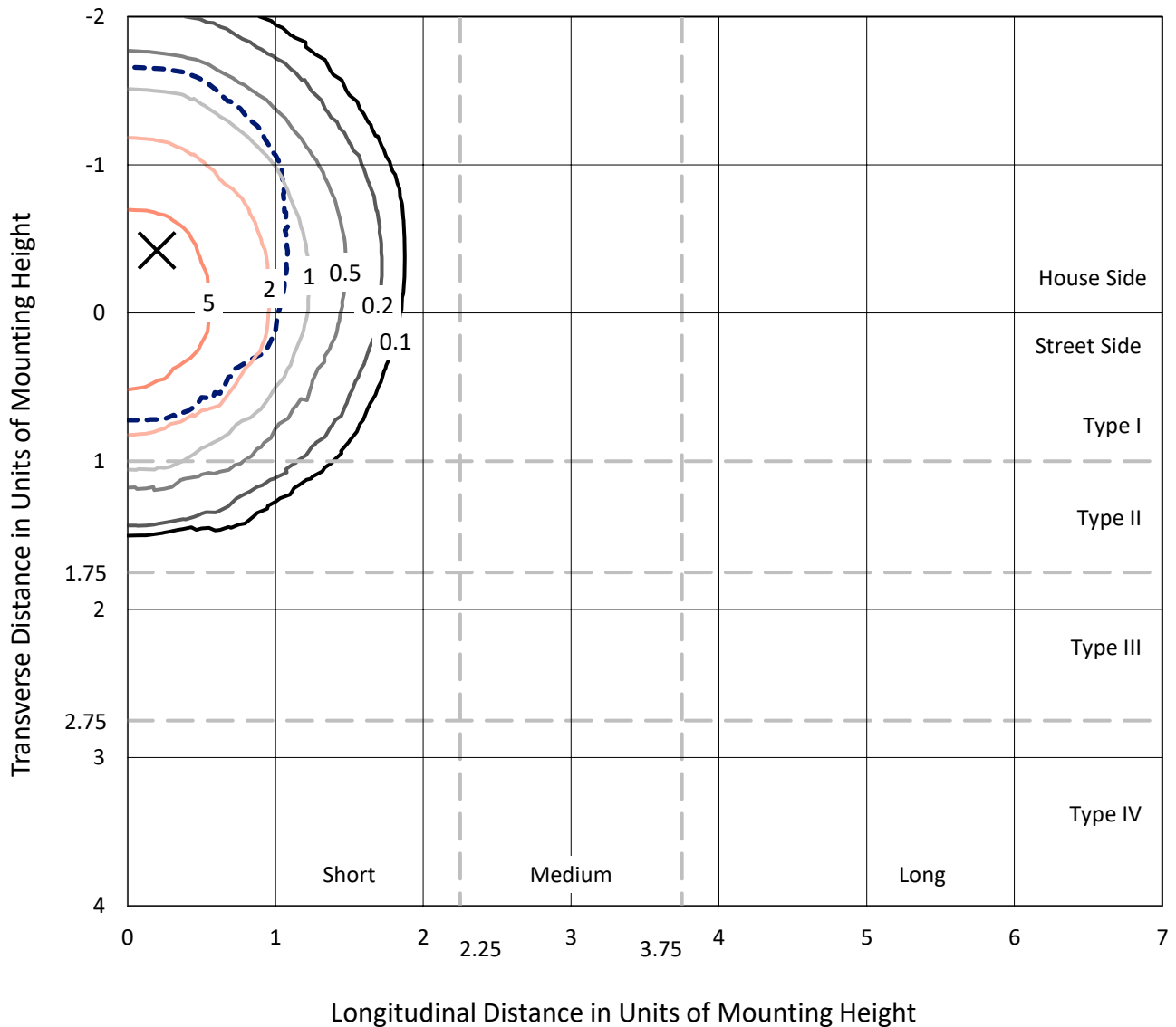
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

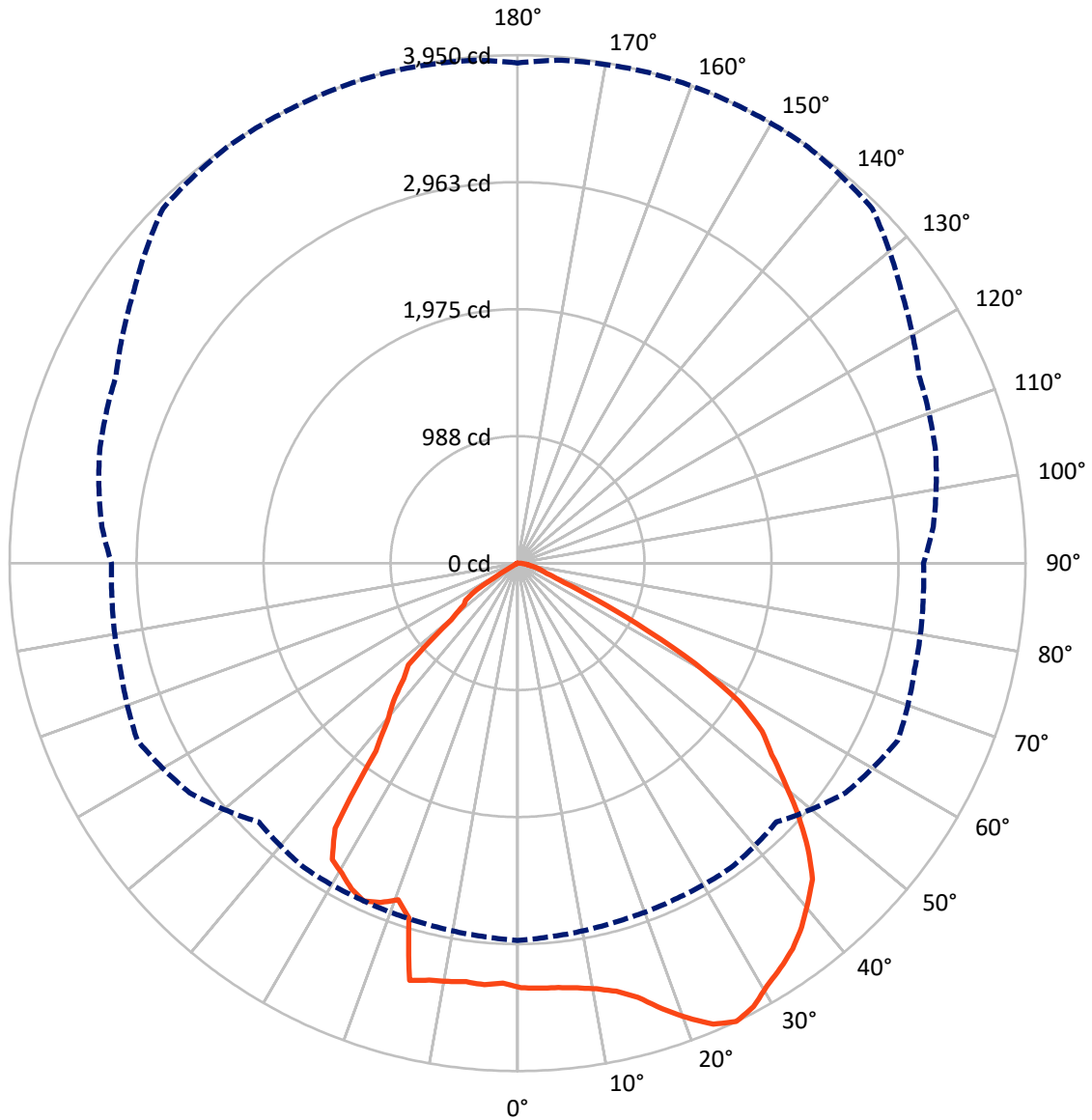
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	4738.5	0.0	4738.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2915.3	0.0	2915.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	7653.8	0.0	7653.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	4.1
10°-20°	967.4	12.6
20°-30°	1529.5	20.0
30°-40°	1727.7	22.6
40°-50°	1618.0	21.1
50°-60°	1115.5	14.6
60°-70°	299.7	3.9
70°-80°	62.4	0.8
80°-90°	16.9	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°	7653.8	100.0
0°-180°	7653.8	100.0



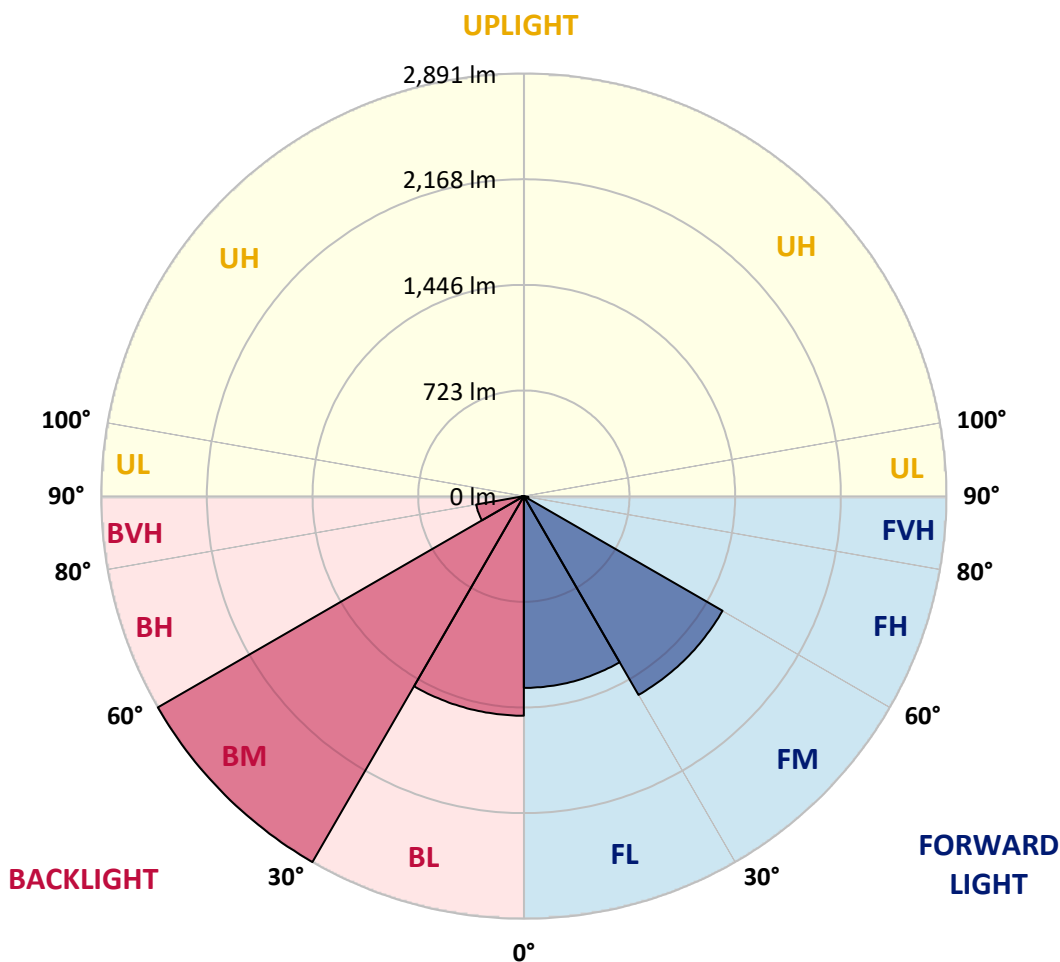
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.6	17.1			
FM (30°-60°)	1570.0	20.5			
FH (60°-80°)	31.4	0.4			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1502.1	19.6	B3/2500		
BM (30°-60°)	2891.1	37.8	B3/5000		
BH (60°-80°)	330.7	4.3	B1/500		G1/500
BVH (80°-90°)	14.6	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°	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5
2.5°	3317.1	3295.8	3275.5	3268.8	3296.9	3327.3	3308.1	3309.3	3302.5	3314.9
5°	3341.9	3312.6	3299.1	3289.0	3293.5	3325.0	3298.0	3308.1	3296.9	3311.5
7.5°	3332.9	3312.6	3299.1	3280.0	3294.6	3331.8	3305.9	3307.0	3301.4	3314.9
10°	3327.3	3312.6	3295.8	3298.0	3314.9	3346.4	3326.1	3337.4	3329.5	3337.4
12.5°	3340.7	3325.0	3316.0	3316.0	3330.6	3366.6	3356.5	3366.6	3363.2	3370.0
15°	3213.6	3228.3	3313.8	3352.0	3381.2	3417.2	3412.7	3422.9	3425.1	3435.2
17.5°	2710.8	2696.2	2689.5	2886.3	3409.4	3520.7	3517.3	3516.2	3505.0	3497.1
20°	2777.2	2771.6	2763.7	2778.3	2836.8	3574.7	3597.2	3458.9	3418.4	3415.0
22.5°	2882.9	2873.9	2844.7	2845.8	2863.8	3107.9	3485.9	3359.9	3346.4	3338.5
25°	2934.7	2916.7	2893.1	2886.3	2891.9	2846.9	3113.5	3263.1	3196.8	3166.4
27.5°	2843.6	2844.7	2825.6	2843.6	2822.2	2619.7	2506.1	3074.2	3071.9	3058.4
30°	2775.0	2771.6	2749.1	2771.6	2624.2	2398.1	2349.8	2867.2	2843.6	2825.6
32.5°	2564.6	2566.9	2632.1	2719.8	2478.0	2299.2	2152.9	2561.2	2785.1	2775.0
35°	1834.6	1839.1	2070.8	2503.9	2256.4	2102.3	2091.1	2213.7	2692.8	2697.3
37.5°	1766.0	1766.0	1760.4	1831.2	2082.1	2022.4	2044.9	2032.6	2466.8	2478.0
40°	1716.5	1706.4	1698.5	1587.1	1447.7	1966.2	1982.0	1925.7	2331.8	2334.0
42.5°	1656.9	1645.6	1647.9	1442.0	1295.8	1826.7	1782.9	1707.5	2106.8	2109.1
45°	1547.8	1566.9	1580.4	1262.1	1250.8	1304.8	1644.5	1597.3	1955.0	1996.6
47.5°	787.4	804.3	1233.9	1160.8	1186.7	1159.7	1389.2	1390.3	1626.5	1764.9
50°	714.3	709.8	710.9	677.1	1095.6	938.1	1004.5	1274.4	1302.6	1500.5
52.5°	665.9	664.8	596.2	529.8	688.4	825.6	728.9	922.4	968.5	1271.1
55°	492.7	528.7	470.2	498.3	430.8	661.4	658.0	832.4	848.1	1019.1
57.5°	4.5	5.6	13.5	379.1	298.1	330.7	454.4	568.0	596.2	794.1
60°	1.1	2.2	5.6	11.2	193.5	203.6	303.7	328.5	370.1	473.6
62.5°	0.0	0.0	2.2	5.6	10.1	83.2	96.7	105.7	163.1	241.8
65°	0.0	0.0	1.1	3.4	5.6	13.5	23.6	49.5	70.9	87.7
67.5°	0.0	0.0	1.1	2.2	4.5	6.7	13.5	19.1	30.4	51.7
70°	0.0	0.0	1.1	2.2	3.4	5.6	9.0	13.5	18.0	25.9
72.5°	0.0	0.0	1.1	2.2	2.2	6.7	6.7	10.1	13.5	16.9
75°	0.0	0.0	1.1	1.1	2.2	4.5	6.7	7.9	9.0	13.5
77.5°	0.0	0.0	1.1	2.2	3.4	4.5	5.6	9.0	7.9	7.9
80°	0.0	0.0	1.1	3.4	3.4	5.6	6.7	9.0	5.6	5.6
82.5°	0.0	0.0	1.1	4.5	3.4	11.2	11.2	12.4	4.5	4.5
85°	0.0	0.0	3.4	2.2	6.7	11.2	10.1	6.7	5.6	3.4
87.5°	0.0	0.0	1.1	1.1	2.2	3.4	7.9	6.7	2.2	2.2
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°
3302.5	0°	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5	3302.5
3282.3	2.5°	3327.3	3312.6	3343.0	3339.6	3325.0	3318.3	3310.4	3303.6	3254.1
3284.5	5°	3328.4	3305.9	3343.0	3336.3	3334.0	3322.8	3316.0	3326.1	3281.1
3293.5	7.5°	3328.4	3305.9	3346.4	3348.6	3345.2	3336.3	3335.1	3341.9	3304.8
3309.3	10°	3350.9	3341.9	3375.6	3379.0	3374.5	3372.2	3366.6	3362.1	3322.8
3363.2	12.5°	3398.1	3380.1	3418.4	3428.5	3425.1	3430.7	3417.2	3424.0	3383.5
3418.4	15°	3455.5	3456.6	3485.9	3508.3	3506.1	3524.1	3503.9	3521.8	3492.6
3481.4	17.5°	3543.2	3555.6	3597.2	3631.0	3643.3	3656.8	3643.3	3649.0	3607.3
3411.6	20°	3451.0	3497.1	3697.3	3759.2	3785.1	3797.4	3774.9	3781.7	3740.1
3326.1	22.5°	3367.7	3427.4	3605.1	3798.6	3878.4	3903.2	3895.3	3894.2	3878.4
3157.4	25°	3245.1	3365.5	3445.4	3650.1	3900.9	3945.9	3950.4	3949.3	3925.7
3053.9	27.5°	3094.4	3121.4	3328.4	3453.2	3743.4	3914.4	3907.7	3875.0	3843.5
2839.1	30°	2902.1	3024.7	3118.0	3317.1	3539.8	3817.7	3817.7	3792.9	3760.3
2762.6	32.5°	2804.2	2962.8	3049.4	3121.4	3311.5	3709.7	3754.7	3728.8	3702.9
2703.0	35°	2752.5	2776.1	2978.6	3043.8	3204.6	3501.6	3683.8	3658.0	3638.8
2544.4	37.5°	2638.9	2694.0	2788.5	2962.8	3012.3	3331.8	3589.3	3575.8	3553.3
2338.5	40°	2385.8	2533.1	2678.2	2843.6	2895.3	3113.5	3474.6	3480.2	3449.9
2119.2	42.5°	2236.2	2336.3	2563.5	2674.8	2814.3	2972.9	3363.2	3372.2	3350.9
2007.8	45°	2060.7	2172.0	2331.8	2534.2	2724.3	2779.5	3166.4	3260.9	3242.9
1786.2	47.5°	1899.8	1989.8	2185.5	2390.3	2600.6	2592.7	2940.3	3118.0	3093.3
1616.4	50°	1671.5	1829.0	1921.2	2109.1	2422.9	2444.3	2699.6	2950.4	2930.2
1373.4	52.5°	1409.4	1607.4	1784.0	1956.1	2242.9	2293.5	2475.8	2779.5	2766.0
1049.5	55°	1231.7	1375.7	1574.8	1713.1	2024.7	2159.7	2308.2	2616.4	2609.6
862.7	57.5°	876.2	1154.1	1318.3	1511.8	1676.0	1920.1	2030.3	2284.5	2221.5
478.1	60°	593.9	724.4	924.6	1132.7	1242.9	1487.0	1589.4	1793.0	1776.1
285.7	62.5°	313.8	434.2	577.0	681.6	761.5	998.9	1041.6	1260.9	1255.3
114.7	65°	138.4	183.3	312.7	366.7	448.8	559.0	596.2	674.9	655.8
56.2	67.5°	72.0	109.1	176.6	217.1	273.3	315.0	345.3	370.1	385.8
37.1	70°	43.9	79.9	109.1	150.7	187.8	221.6	245.2	279.0	299.2
19.1	72.5°	32.6	50.6	75.4	115.9	136.1	175.5	199.1	223.8	241.8
15.7	75°	18.0	33.7	60.7	91.1	109.1	142.9	164.2	181.1	186.7
9.0	77.5°	11.2	25.9	50.6	70.9	85.5	115.9	110.2	126.0	139.5
6.7	80°	7.9	19.1	39.4	58.5	59.6	74.2	87.7	101.2	110.2
4.5	82.5°	5.6	15.7	29.2	45.0	39.4	57.4	68.6	78.7	57.4
3.4	85°	4.5	11.2	14.6	27.0	22.5	40.5	34.9	33.7	22.5
2.2	87.5°	3.4	5.6	10.1	12.4	9.0	9.0	11.2	13.5	11.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3302.5
3220.4
3242.9
3262.0
3290.1
3347.5
3444.2
3571.3
3710.8
3827.8
3889.7
3818.8
3747.9
3681.6
3611.8
3530.8
3443.1
3348.6
3245.1
3111.3
2933.6
2775.0
2617.5
2214.8
1777.2
1256.4
647.9
385.8
300.3
245.2
183.3
141.7
111.4
41.6
22.5
11.2
0.0

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