

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: P636943

Luminaire Tested: **IFLD-S-SA2D-940-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636943  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-940-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8329.3 lumens  
Efficiency: N/A  
Efficacy: 67.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

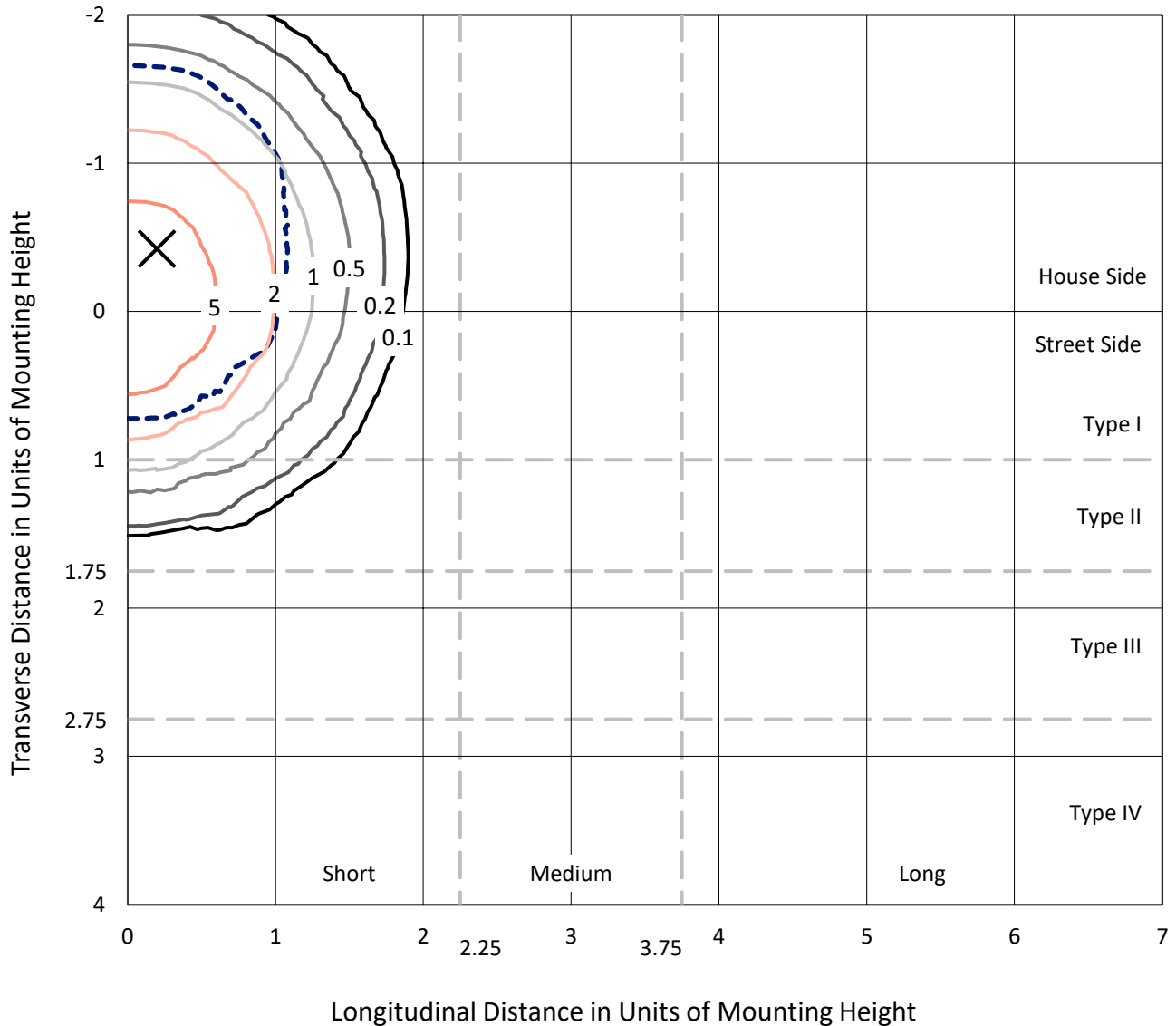
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

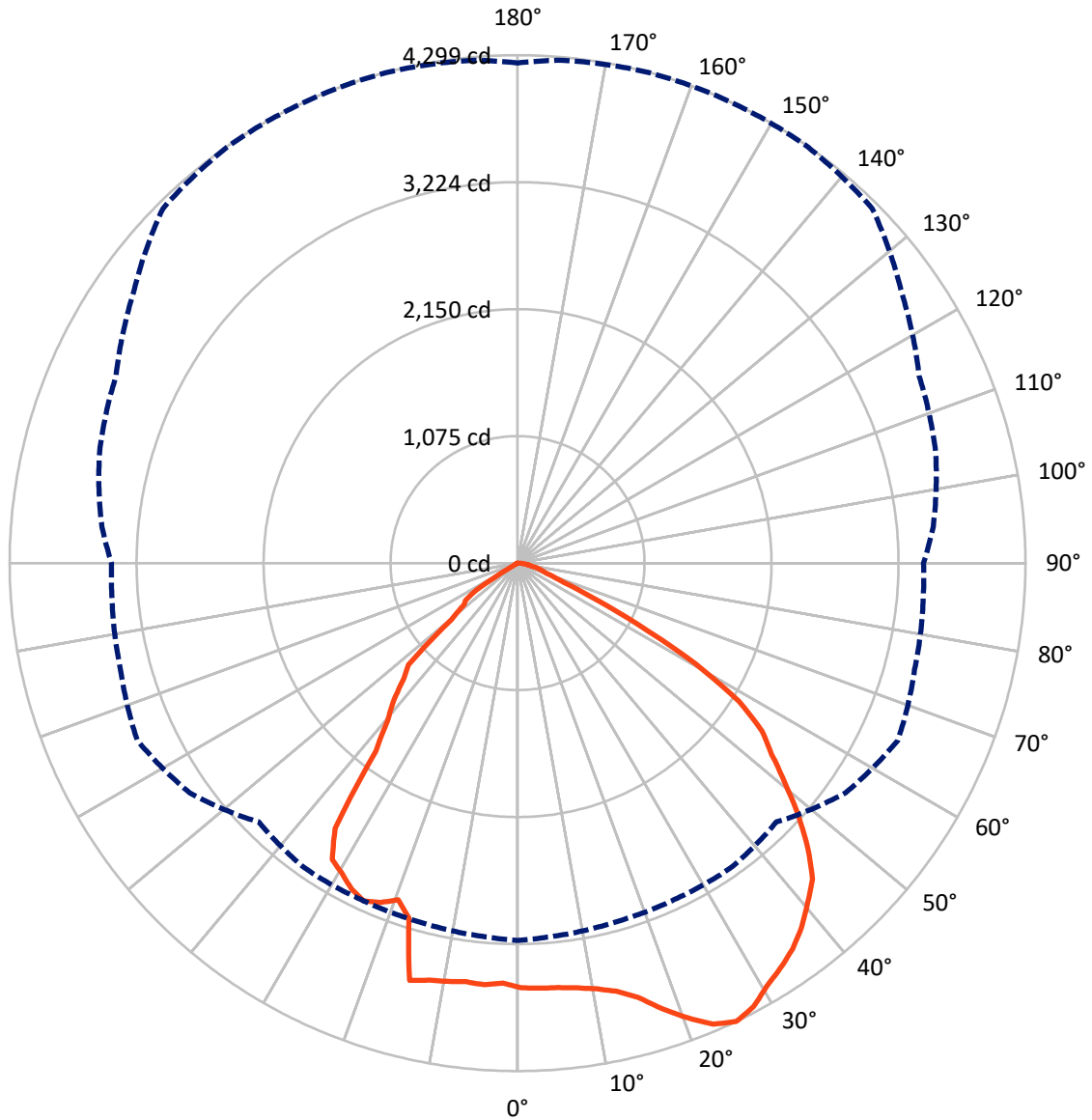
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	5156.7	0.0	5156.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3172.6	0.0	3172.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	8329.3	0.0	8329.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	4.1
10°-20°	1052.8	12.6
20°-30°	1664.4	20.0
30°-40°	1880.1	22.6
40°-50°	1760.8	21.1
50°-60°	1213.9	14.6
60°-70°	326.1	3.9
70°-80°	68.0	0.8
80°-90°	18.4	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°	8329.3	100.0
0°-180°	8329.3	100.0



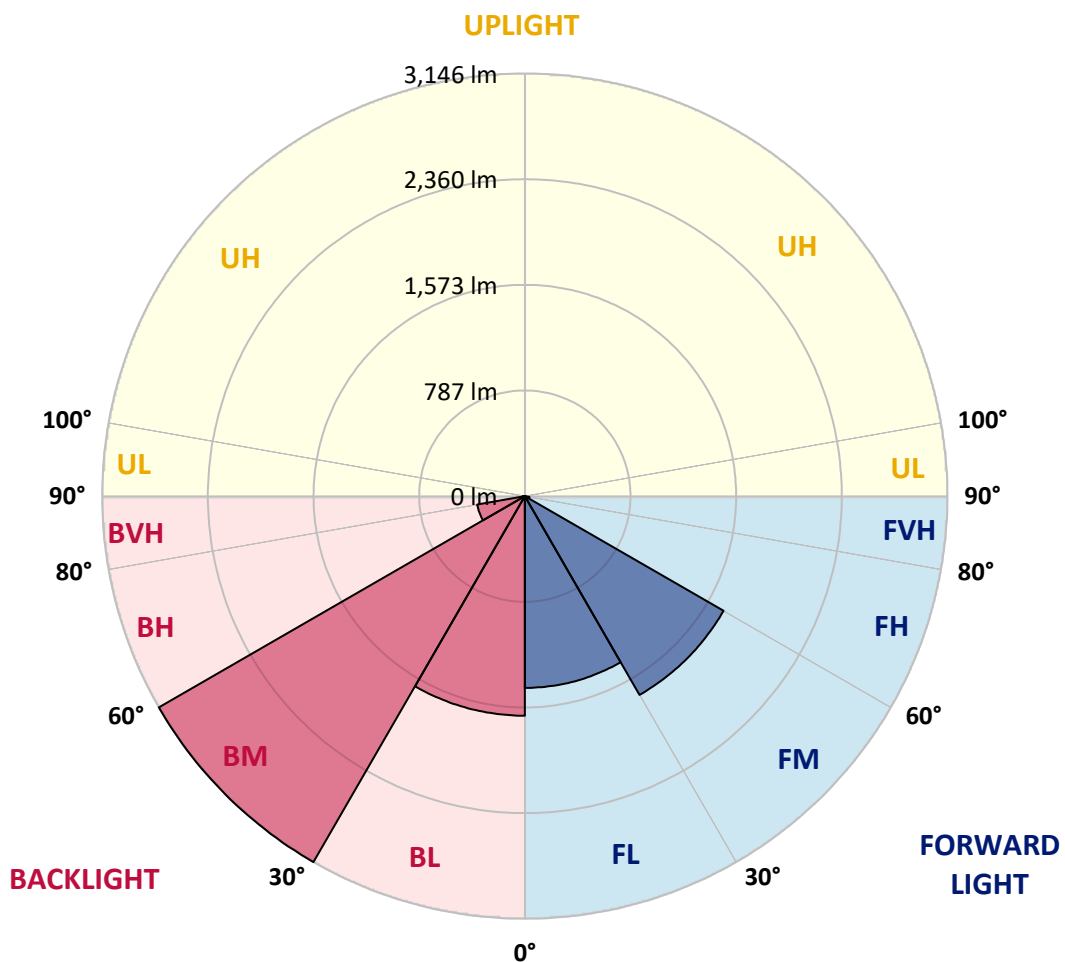
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.4	17.1			
FM (30°-60°)	1708.5	20.5			
FH (60°-80°)	34.2	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1634.6	19.6	B3/2500		
BM (30°-60°)	3146.3	37.8	B3/5000		
BH (60°-80°)	359.9	4.3	B1/500		G1/500
BVH (80°-90°)	15.9	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°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3609.9	3586.6	3564.6	3557.2	3587.8	3620.9	3600.1	3601.3	3594.0	3607.4
5°	3636.8	3605.0	3590.3	3579.3	3584.2	3618.4	3589.1	3600.1	3587.8	3603.8
7.5°	3627.0	3605.0	3590.3	3569.5	3585.4	3625.8	3597.6	3598.9	3592.7	3607.4
10°	3620.9	3605.0	3586.6	3589.1	3607.4	3641.7	3619.7	3631.9	3623.3	3631.9
12.5°	3635.6	3618.4	3608.7	3608.7	3624.6	3663.7	3652.7	3663.7	3660.1	3667.4
15°	3497.3	3513.2	3606.2	3647.8	3679.6	3718.8	3713.9	3724.9	3727.4	3738.4
17.5°	2950.1	2934.2	2926.8	3141.0	3710.3	3831.4	3827.8	3826.5	3814.3	3805.7
20°	3022.3	3016.2	3007.6	3023.5	3087.2	3890.2	3914.7	3764.1	3720.0	3716.4
22.5°	3137.4	3127.6	3095.8	3097.0	3116.6	3382.2	3793.5	3656.4	3641.7	3633.1
25°	3193.7	3174.1	3148.4	3141.0	3147.2	3098.2	3388.3	3551.1	3478.9	3445.8
27.5°	3094.5	3095.8	3074.9	3094.5	3071.3	2850.9	2727.3	3345.5	3343.0	3328.3
30°	3019.9	3016.2	2991.7	3016.2	2855.8	2609.8	2557.1	3120.2	3094.5	3074.9
32.5°	2791.0	2793.4	2864.4	2959.9	2696.7	2502.1	2342.9	2787.3	3030.9	3019.9
35°	1996.5	2001.4	2253.6	2724.8	2455.5	2287.8	2275.6	2409.0	2930.5	2935.4
37.5°	1921.8	1921.8	1915.7	1992.8	2265.8	2200.9	2225.4	2212.0	2684.5	2696.7
40°	1868.0	1857.0	1848.4	1727.2	1575.4	2139.7	2156.9	2095.7	2537.6	2540.0
42.5°	1803.1	1790.9	1793.3	1569.3	1410.2	1987.9	1940.2	1858.2	2292.7	2295.2
45°	1684.4	1705.2	1719.9	1373.4	1361.2	1420.0	1789.6	1738.2	2127.5	2172.8
47.5°	856.9	875.2	1342.8	1263.3	1291.4	1262.0	1511.8	1513.0	1770.1	1920.6
50°	777.3	772.4	773.6	736.9	1192.3	1020.9	1093.1	1386.9	1417.5	1633.0
52.5°	724.7	723.4	648.8	576.6	749.1	898.5	793.2	1003.8	1054.0	1383.2
55°	536.2	575.3	511.7	542.3	468.8	719.8	716.1	905.8	923.0	1109.0
57.5°	4.9	6.1	14.7	412.5	324.4	359.9	494.5	618.2	648.8	864.2
60°	1.2	2.4	6.1	12.2	210.5	221.6	330.5	357.4	402.7	515.3
62.5°	0.0	0.0	2.4	6.1	11.0	90.6	105.3	115.1	177.5	263.2
65°	0.0	0.0	1.2	3.7	6.1	14.7	25.7	53.9	77.1	95.5
67.5°	0.0	0.0	1.2	2.4	4.9	7.3	14.7	20.8	33.1	56.3
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.7	19.6	28.2
72.5°	0.0	0.0	1.2	2.4	2.4	7.3	7.3	11.0	14.7	18.4
75°	0.0	0.0	1.2	1.2	2.4	4.9	7.3	8.6	9.8	14.7
77.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	9.8	8.6	8.6
80°	0.0	0.0	1.2	3.7	3.7	6.1	7.3	9.8	6.1	6.1
82.5°	0.0	0.0	1.2	4.9	3.7	12.2	12.2	13.5	4.9	4.9
85°	0.0	0.0	3.7	2.4	7.3	12.2	11.0	7.3	6.1	3.7
87.5°	0.0	0.0	1.2	1.2	2.4	3.7	8.6	7.3	2.4	2.4
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°
3594.0	0°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
3571.9	2.5°	3620.9	3605.0	3638.0	3634.4	3618.4	3611.1	3602.5	3595.2	3541.3
3574.4	5°	3622.1	3597.6	3638.0	3630.7	3628.2	3616.0	3608.7	3619.7	3570.7
3584.2	7.5°	3622.1	3597.6	3641.7	3644.1	3640.5	3630.7	3629.5	3636.8	3596.4
3601.3	10°	3646.6	3636.8	3673.5	3677.2	3672.3	3669.9	3663.7	3658.8	3616.0
3660.1	12.5°	3698.0	3678.4	3720.0	3731.1	3727.4	3733.5	3718.8	3726.2	3682.1
3720.0	15°	3760.4	3761.7	3793.5	3818.0	3815.5	3835.1	3813.1	3832.7	3800.8
3788.6	17.5°	3855.9	3869.4	3914.7	3951.4	3964.9	3979.6	3964.9	3971.0	3925.7
3712.7	20°	3755.5	3805.7	4023.6	4090.9	4119.1	4132.6	4108.1	4115.4	4070.1
3619.7	22.5°	3665.0	3729.8	3923.2	4133.8	4220.7	4247.6	4239.1	4237.8	4220.7
3436.1	25°	3531.5	3662.5	3749.4	3972.2	4245.2	4294.1	4299.0	4297.8	4272.1
3323.4	27.5°	3367.5	3396.9	3622.1	3758.0	4073.8	4259.9	4252.5	4217.0	4182.8
3089.6	30°	3158.2	3291.6	3393.2	3609.9	3852.2	4154.6	4154.6	4127.7	4092.2
3006.4	32.5°	3051.7	3224.3	3318.5	3396.9	3603.8	4037.1	4086.1	4057.9	4029.7
2941.5	35°	2995.4	3021.1	3241.4	3312.4	3487.5	3810.6	4008.9	3980.8	3960.0
2768.9	37.5°	2871.7	2931.7	3034.5	3224.3	3278.1	3625.8	3906.1	3891.4	3866.9
2544.9	40°	2596.3	2756.7	2914.6	3094.5	3150.8	3388.3	3781.2	3787.4	3754.3
2306.2	42.5°	2433.5	2542.5	2789.7	2910.9	3062.7	3235.3	3660.1	3669.9	3646.6
2185.0	45°	2242.6	2363.7	2537.6	2757.9	2964.8	3024.8	3445.8	3548.7	3529.1
1943.9	47.5°	2067.5	2165.4	2378.4	2601.2	2830.1	2821.6	3199.8	3393.2	3366.3
1759.0	50°	1819.0	1990.4	2090.8	2295.2	2636.7	2660.0	2937.8	3210.8	3188.8
1494.6	52.5°	1533.8	1749.2	1941.4	2128.7	2440.9	2495.9	2694.2	3024.8	3010.1
1142.1	55°	1340.4	1497.1	1713.7	1864.3	2203.4	2350.3	2511.9	2847.3	2839.9
938.9	57.5°	953.6	1255.9	1434.6	1645.2	1823.9	2089.5	2209.5	2486.1	2417.6
520.2	60°	646.3	788.3	1006.2	1232.7	1352.6	1618.3	1729.7	1951.2	1932.9
310.9	62.5°	341.5	472.5	628.0	741.8	828.7	1087.0	1133.5	1372.2	1366.1
124.9	65°	150.6	199.5	340.3	399.1	488.4	608.4	648.8	734.5	713.7
61.2	67.5°	78.3	118.7	192.2	236.3	297.5	342.7	375.8	402.7	419.9
40.4	70°	47.7	86.9	118.7	164.0	204.4	241.1	266.9	303.6	325.6
20.8	72.5°	35.5	55.1	82.0	126.1	148.1	191.0	216.7	243.6	263.2
17.1	75°	19.6	36.7	66.1	99.2	118.7	155.5	178.7	197.1	203.2
9.8	77.5°	12.2	28.2	55.1	77.1	93.0	126.1	120.0	137.1	151.8
7.3	80°	8.6	20.8	42.8	63.7	64.9	80.8	95.5	110.2	120.0
4.9	82.5°	6.1	17.1	31.8	49.0	42.8	62.4	74.7	85.7	62.4
3.7	85°	4.9	12.2	15.9	29.4	24.5	44.1	37.9	36.7	24.5
2.4	87.5°	3.7	6.1	11.0	13.5	9.8	9.8	12.2	14.7	12.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
3594.0
3504.6
3529.1
3549.9
3580.5
3642.9
3748.2
3886.5
4038.3
4165.6
4232.9
4155.8
4078.7
4006.5
3930.6
3842.5
3747.0
3644.1
3531.5
3385.9
3192.5
3019.9
2848.5
2410.3
1934.1
1367.3
705.1
419.9
326.8
266.9
199.5
154.2
121.2
45.3
24.5
12.2
0.0

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