

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: P638245

Luminaire Tested: **IFLD-S-SA2A-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638245  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5220.1 lumens  
Efficiency: N/A  
Efficacy: 81.8 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): 63.8  
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

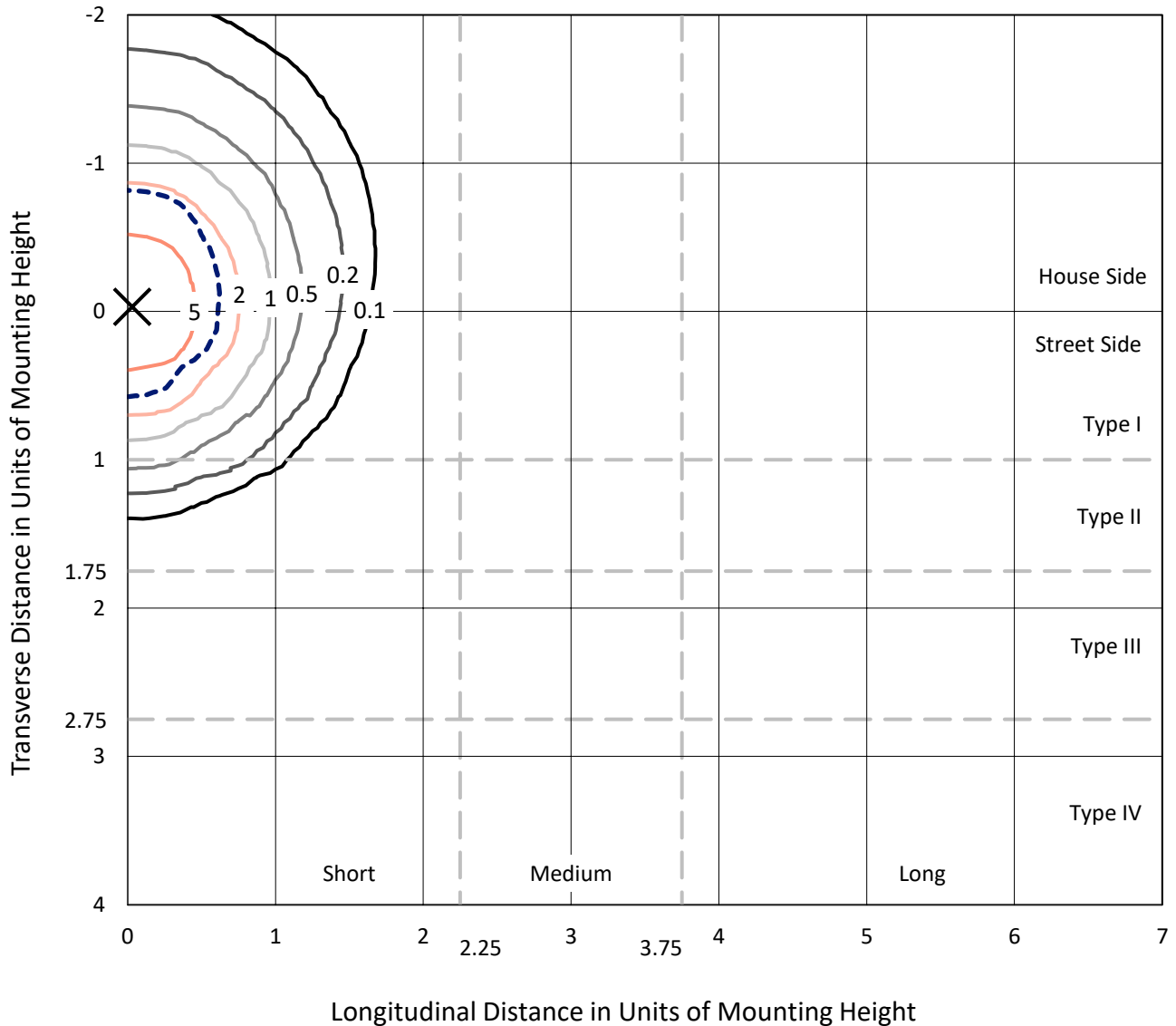




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### Iso-Footcandle Lines of Horizontal Illumination

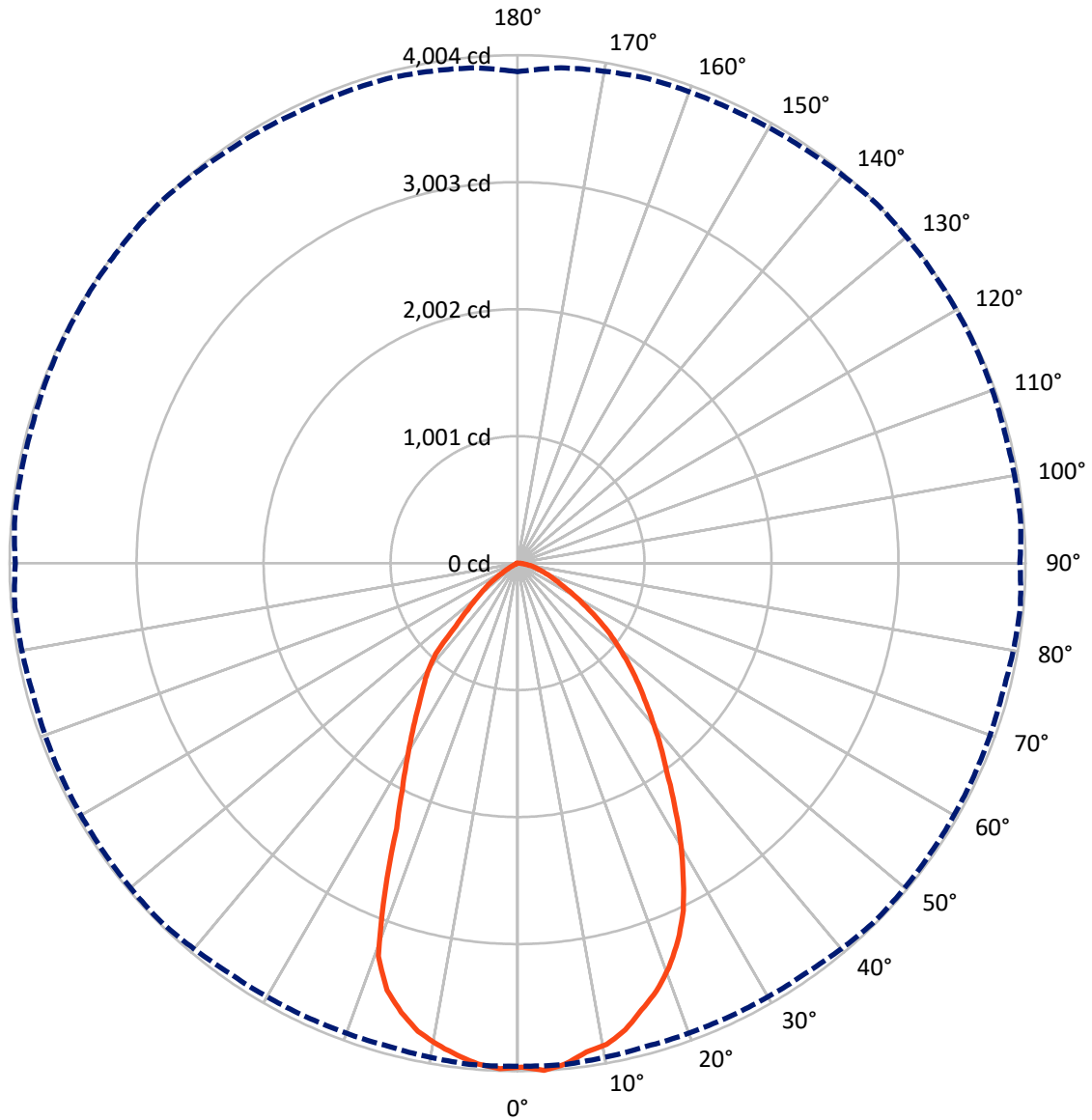
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3091.6	0.0	3091.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	2128.5	0.0	2128.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	5220.1	0.0	5220.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	7.1
10°-20°	999.0	19.1
20°-30°	1218.4	23.3
30°-40°	1112.4	21.3
40°-50°	803.9	15.4
50°-60°	438.9	8.4
60°-70°	181.5	3.5
70°-80°	73.5	1.4
80°-90°	20.0	0.4
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°	5220.1	100.0
0°-180°	5220.1	100.0



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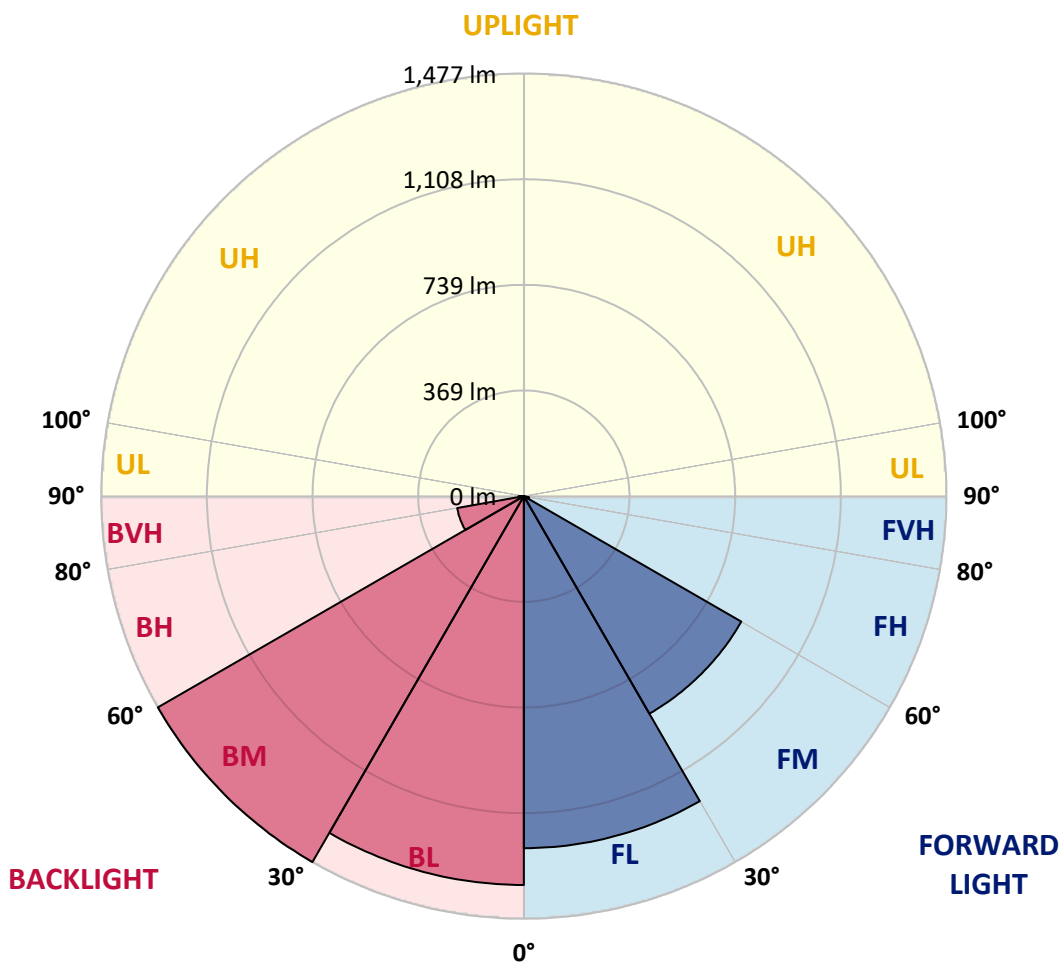
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.6	23.6			
FM (30°-60°)	877.9	16.8			
FH (60°-80°)	18.4	0.4			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1359.4	26.0	B3/2500		
BM (30°-60°)	1477.3	28.3	B2/2500		
BH (60°-80°)	236.6	4.5	B1/500		G1/500
BVH (80°-90°)	18.4	0.4			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°	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5
2.5°	3965.2	3970.3	3942.4	3945.3	3950.5	3988.0	3978.4	3969.6	3957.1	3978.4
5°	3960.0	3963.0	3933.6	3923.3	3927.7	3961.5	3930.6	3930.6	3927.7	3924.0
7.5°	3920.3	3921.8	3899.0	3880.6	3892.4	3907.8	3885.0	3896.1	3879.9	3892.4
10°	3860.8	3851.2	3824.0	3818.9	3832.1	3846.8	3831.4	3841.7	3827.0	3836.5
12.5°	3773.3	3758.6	3736.5	3729.9	3752.7	3772.6	3760.1	3754.2	3735.1	3758.6
15°	3435.9	3424.9	3474.9	3562.3	3641.0	3657.9	3644.7	3650.5	3610.8	3617.5
17.5°	2828.0	2807.4	2861.0	3068.3	3363.8	3519.7	3507.9	3469.7	3410.9	3424.1
20°	2569.9	2564.1	2558.2	2607.4	2814.0	3286.7	3302.8	3205.8	3122.0	3103.6
22.5°	2424.4	2422.2	2416.3	2427.3	2481.7	2785.3	2970.6	2880.9	2825.0	2819.9
25°	2291.3	2287.7	2270.0	2284.0	2284.0	2301.6	2539.1	2593.5	2544.2	2538.3
27.5°	2156.1	2149.5	2146.5	2153.1	2119.3	2000.2	2060.5	2325.9	2300.1	2301.6
30°	2009.8	2007.6	1999.5	2013.5	1909.1	1761.3	1723.1	2083.3	2088.4	2087.0
32.5°	1792.2	1801.7	1838.5	1853.9	1681.9	1559.9	1495.9	1802.5	1907.6	1905.4
35°	1301.9	1301.9	1421.7	1644.4	1473.9	1382.0	1347.5	1528.3	1729.0	1736.3
37.5°	1070.3	1074.0	1097.5	1199.0	1271.7	1239.4	1229.1	1286.4	1499.6	1511.4
40°	963.0	963.0	963.0	921.1	918.9	1116.6	1110.7	1092.4	1295.3	1321.0
42.5°	865.2	867.4	868.9	763.0	704.2	965.2	952.0	924.0	1112.2	1142.4
45°	764.5	768.2	772.6	638.1	612.3	694.7	805.7	774.8	931.4	970.3
47.5°	466.8	472.7	572.6	541.0	544.0	535.9	657.2	652.0	763.8	818.9
50°	315.4	317.6	327.1	343.3	466.8	421.2	465.3	539.6	580.0	663.8
52.5°	264.6	268.3	244.8	222.7	306.5	329.3	324.9	400.6	416.8	520.5
55°	186.0	197.7	186.7	184.5	174.2	255.8	246.3	308.0	318.3	395.5
57.5°	19.1	22.1	38.2	137.5	113.9	144.8	175.7	225.7	236.0	291.8
60°	1.5	1.5	3.7	19.1	83.1	86.7	121.3	138.9	158.8	203.6
62.5°	0.0	0.7	1.5	2.9	13.2	46.3	61.0	72.8	95.6	131.6
65°	0.0	0.0	0.7	2.2	2.9	17.6	23.5	38.2	52.2	81.6
67.5°	0.0	0.0	0.7	1.5	2.2	4.4	8.1	14.0	27.9	46.3
70°	0.0	0.0	0.7	1.5	2.2	3.7	5.9	8.8	12.5	25.0
72.5°	0.0	0.0	0.7	0.7	1.5	3.7	4.4	5.9	8.8	12.5
75°	0.0	0.0	0.7	0.7	2.2	4.4	3.7	4.4	5.9	8.1
77.5°	0.0	0.0	0.7	1.5	2.2	4.4	3.7	4.4	4.4	5.1
80°	0.0	0.0	0.7	1.5	2.9	5.1	4.4	4.4	3.7	3.7
82.5°	0.0	0.0	0.7	2.2	2.9	6.6	6.6	5.9	2.9	2.2
85°	0.0	0.0	1.5	2.9	4.4	7.4	7.4	5.9	2.2	1.5
87.5°	0.0	0.0	1.5	2.2	3.7	5.1	7.4	5.9	2.2	0.7
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°
3972.5	0°	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5	3972.5
3960.0	2.5°	3979.9	3975.5	3990.2	3996.0	4004.1	3973.3	3954.1	3954.9	3919.6
3915.2	5°	3938.7	3939.4	3958.6	3957.1	3965.2	3948.3	3940.9	3928.4	3897.5
3858.6	7.5°	3886.5	3879.9	3898.3	3912.2	3891.7	3903.4	3886.5	3892.4	3874.0
3808.6	10°	3846.1	3830.6	3847.5	3857.1	3857.8	3846.1	3829.9	3814.5	3807.9
3730.7	12.5°	3756.4	3736.5	3765.2	3778.4	3776.2	3753.5	3735.1	3738.8	3717.4
3593.9	15°	3632.9	3633.6	3654.2	3666.7	3655.0	3649.8	3651.3	3642.5	3624.1
3405.0	17.5°	3444.0	3455.0	3509.4	3539.5	3546.2	3535.9	3530.7	3520.4	3502.0
3103.6	20°	3129.3	3195.5	3292.5	3385.9	3404.3	3401.3	3383.0	3378.6	3368.3
2805.2	22.5°	2852.9	2902.2	3014.7	3160.2	3235.2	3242.6	3220.5	3213.9	3202.9
2538.3	25°	2567.0	2619.9	2721.4	2879.4	3034.5	3066.1	3062.5	3042.6	3030.8
2301.6	27.5°	2325.9	2378.8	2470.7	2613.3	2779.4	2880.9	2890.4	2858.8	2858.1
2090.6	30°	2108.3	2181.1	2250.9	2367.0	2528.0	2680.2	2696.4	2674.3	2676.5
1897.3	32.5°	1937.7	1998.0	2057.6	2135.5	2269.3	2446.4	2509.7	2489.1	2481.0
1736.3	35°	1763.5	1804.7	1865.7	1937.0	2028.2	2203.9	2313.4	2297.9	2289.9
1518.7	37.5°	1565.0	1635.6	1679.7	1759.8	1831.2	1970.8	2125.2	2123.0	2106.1
1333.5	40°	1361.4	1435.7	1502.6	1583.4	1638.6	1749.6	1920.8	1920.1	1922.3
1141.6	42.5°	1176.9	1245.3	1326.1	1414.3	1467.3	1548.1	1731.9	1742.2	1754.7
983.6	45°	1010.0	1071.8	1146.8	1254.1	1318.0	1364.4	1527.6	1574.6	1573.9
842.4	47.5°	860.1	918.1	981.4	1085.8	1167.3	1209.3	1344.5	1411.4	1407.0
691.0	50°	721.9	773.3	839.5	915.2	1024.7	1061.5	1162.2	1250.4	1243.8
550.6	52.5°	580.7	652.0	707.9	777.0	892.4	928.4	1006.4	1092.4	1087.2
413.1	55°	452.8	521.9	589.6	649.1	746.1	799.8	855.7	943.9	942.4
323.4	57.5°	342.6	418.3	482.2	538.8	616.0	682.2	727.0	807.1	817.4
221.3	60°	253.6	311.7	380.8	444.0	505.0	573.4	603.5	682.2	686.6
151.4	62.5°	172.8	236.7	304.3	361.7	407.2	477.8	505.0	569.7	577.8
97.0	65°	119.8	161.0	238.2	279.3	335.2	395.5	422.7	474.1	490.3
55.9	67.5°	79.4	114.7	186.0	223.5	278.6	319.8	354.3	396.2	413.9
35.3	70°	43.4	84.5	133.1	176.4	224.2	263.9	297.7	331.5	347.0
16.2	72.5°	29.4	56.6	92.6	139.7	180.8	219.8	249.9	274.9	275.7
9.6	75°	14.7	38.2	70.6	108.1	141.1	179.4	206.6	221.3	203.6
5.9	77.5°	8.8	27.9	57.3	86.7	114.7	144.8	160.3	168.3	139.7
4.4	80°	5.1	19.8	44.8	69.1	79.4	106.6	121.3	123.5	93.4
2.9	82.5°	3.7	14.7	35.3	50.7	48.5	75.0	91.2	88.2	59.5
2.2	85°	2.2	10.3	22.1	31.6	29.4	49.3	52.9	54.4	34.6
1.5	87.5°	1.5	5.9	11.8	16.9	14.0	21.3	21.3	25.7	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
3972.5
3874.0
3890.2
3843.1
3778.4
3699.1
3605.7
3494.0
3344.7
3199.9
3018.3
2856.6
2665.5
2481.7
2278.8
2120.0
1922.3
1748.1
1575.3
1408.5
1249.7
1098.2
946.1
813.0
693.2
579.3
486.6
411.7
341.1
269.0
190.4
134.5
87.5
55.1
31.6
14.7
0.0

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