

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: P636708

Luminaire Tested: **IFLD-S-SA2A-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636708
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495.8 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

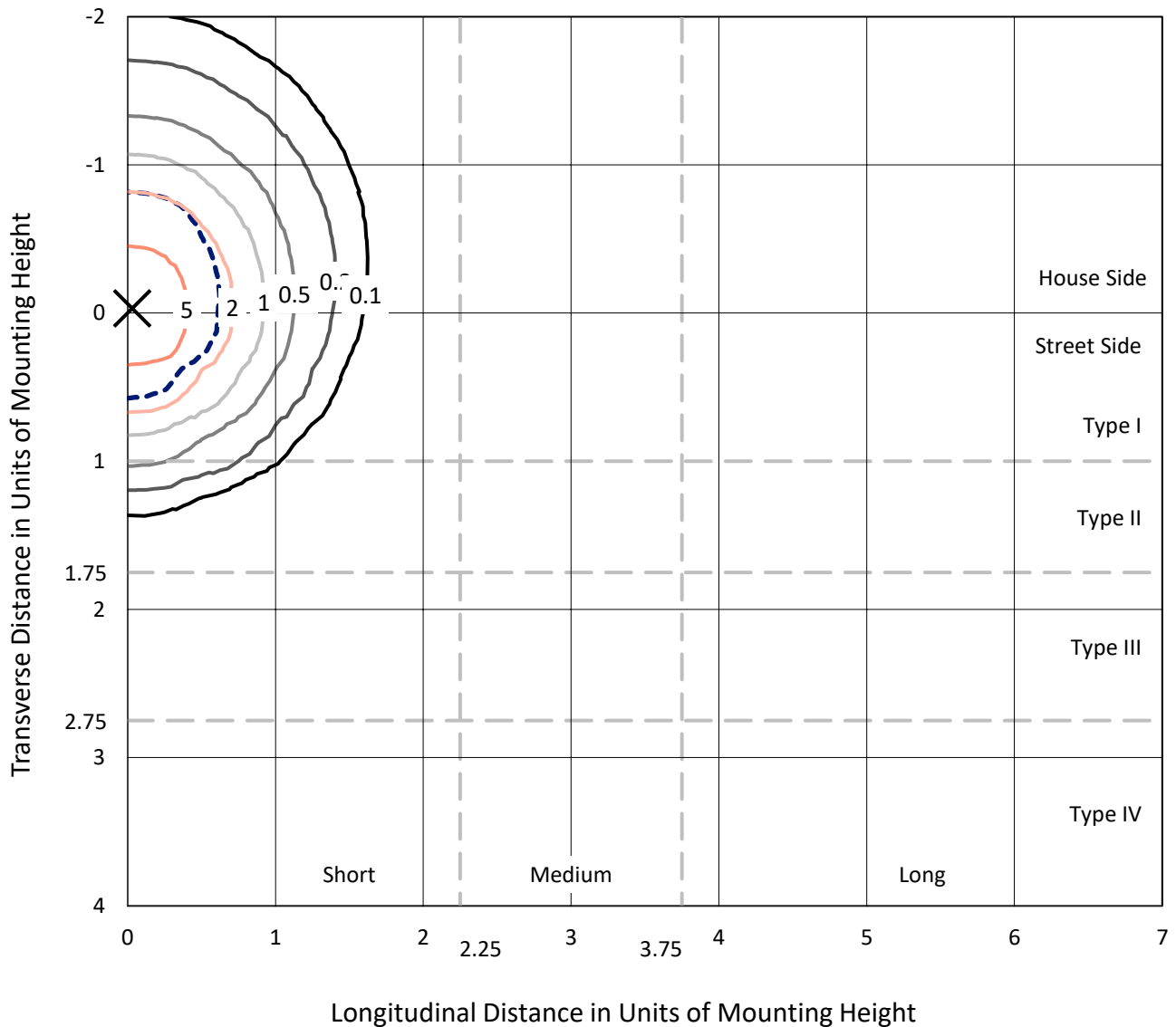
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

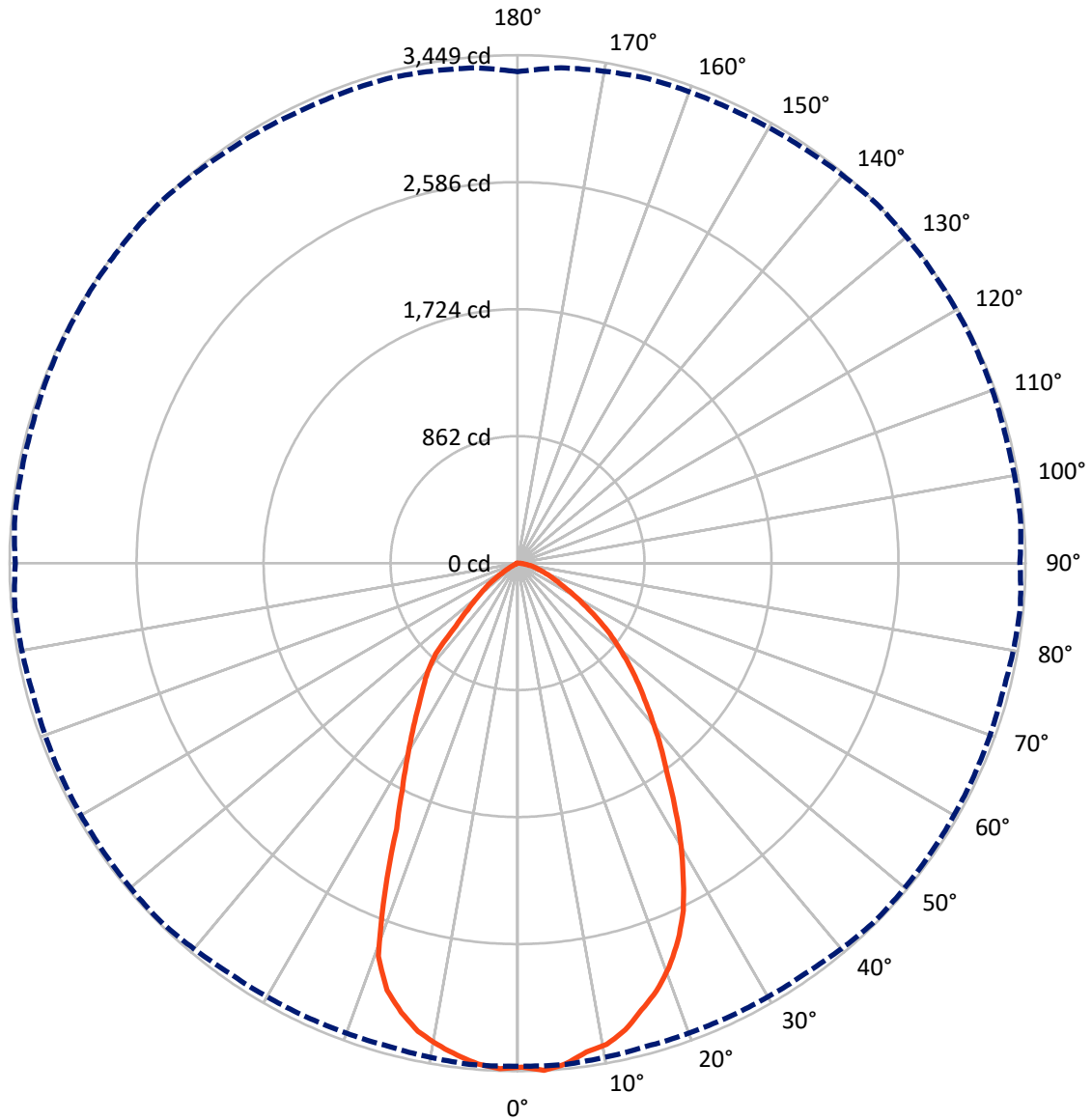
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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
House Side	Lumens	2662.7	0.0	2662.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	1833.2	0.0	1833.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	4495.8	0.0	4495.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.9	7.1
10°-20°	860.4	19.1
20°-30°	1049.3	23.3
30°-40°	958.0	21.3
40°-50°	692.3	15.4
50°-60°	378.0	8.4
60°-70°	156.3	3.5
70°-80°	63.3	1.4
80°-90°	17.2	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°	4495.8	100.0
0°-180°	4495.8	100.0



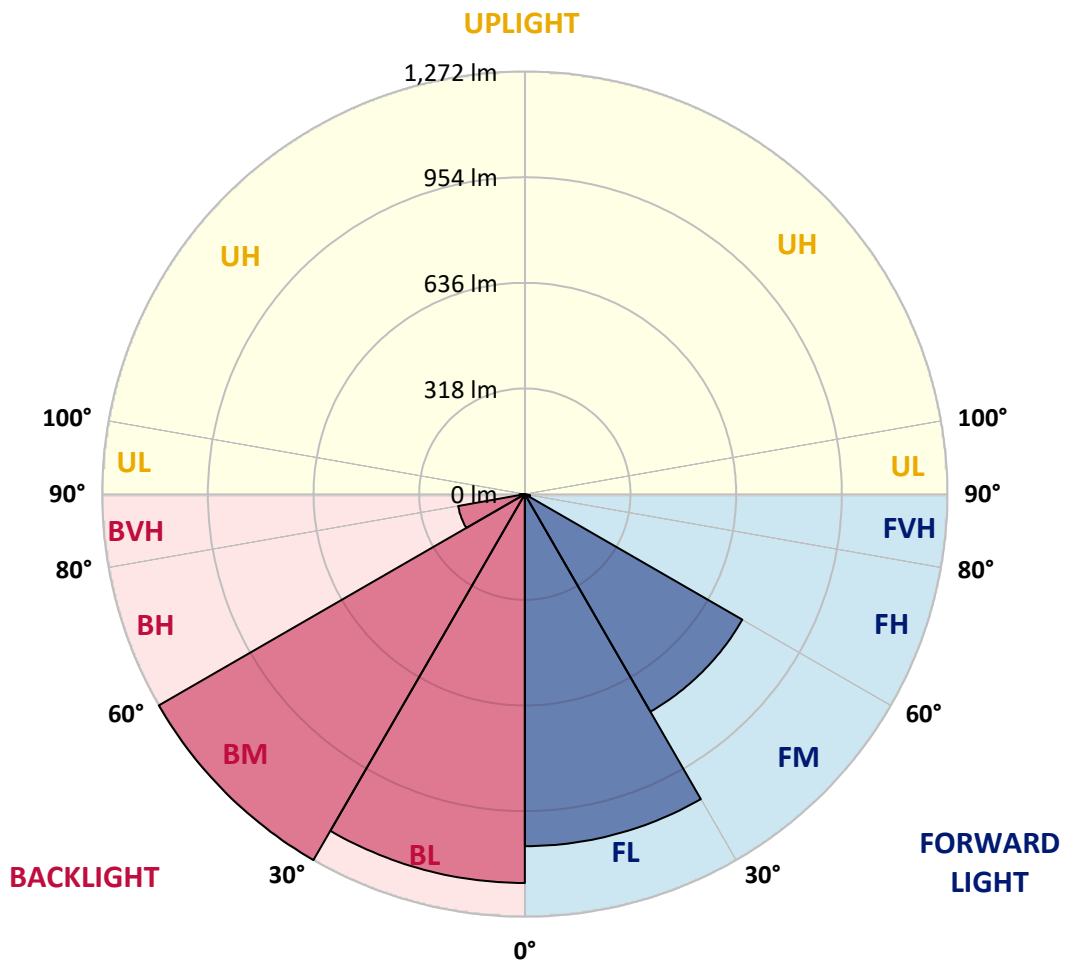
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.8	23.6			
FM (30°-60°)	756.1	16.8			
FH (60°-80°)	15.8	0.4			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	1170.8	26.0	B3/2500		
BM (30°-60°)	1272.3	28.3	B2/2500		
BH (60°-80°)	203.8	4.5	B1/500		G1/500
BVH (80°-90°)	15.8	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°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
2.5°	3415.0	3419.4	3395.3	3397.9	3402.3	3434.6	3426.4	3418.8	3408.0	3426.4
5°	3410.5	3413.1	3387.7	3378.9	3382.7	3411.8	3385.2	3385.2	3382.7	3379.5
7.5°	3376.4	3377.6	3358.0	3342.2	3352.3	3365.6	3346.0	3355.5	3341.5	3352.3
10°	3325.1	3316.8	3293.4	3289.0	3300.4	3313.0	3299.7	3308.6	3295.9	3304.2
12.5°	3249.7	3237.1	3218.1	3212.4	3232.0	3249.1	3238.3	3233.3	3216.8	3237.1
15°	2959.1	2949.6	2992.7	3068.0	3135.8	3150.3	3138.9	3144.0	3109.8	3115.5
17.5°	2435.6	2417.8	2464.0	2642.6	2897.1	3031.3	3021.2	2988.3	2937.6	2949.0
20°	2213.3	2208.3	2203.2	2245.6	2423.5	2830.6	2844.5	2761.0	2688.8	2673.0
22.5°	2088.0	2086.1	2081.0	2090.5	2137.4	2398.8	2558.4	2481.1	2433.0	2428.6
25°	1973.4	1970.2	1955.0	1967.1	1967.1	1982.3	2186.7	2233.6	2191.2	2186.1
27.5°	1856.9	1851.2	1848.7	1854.4	1825.2	1722.7	1774.6	2003.1	1981.0	1982.3
30°	1730.9	1729.0	1722.0	1734.1	1644.2	1516.9	1484.0	1794.2	1798.7	1797.4
32.5°	1543.5	1551.7	1583.4	1596.7	1448.5	1343.5	1288.4	1552.4	1642.9	1641.0
35°	1121.2	1121.2	1224.4	1416.3	1269.4	1190.2	1160.5	1316.2	1489.1	1495.4
37.5°	921.8	925.0	945.2	1032.6	1095.3	1067.4	1058.6	1107.9	1291.5	1301.7
40°	829.4	829.4	829.4	793.3	791.4	961.7	956.6	940.8	1115.5	1137.7
42.5°	745.2	747.1	748.3	657.2	606.5	831.3	819.9	795.8	957.9	983.8
45°	658.4	661.6	665.4	549.5	527.4	598.3	693.9	667.3	802.1	835.7
47.5°	402.0	407.1	493.2	466.0	468.5	461.5	566.0	561.6	657.8	705.3
50°	271.6	273.5	281.7	295.7	402.0	362.8	400.8	464.7	499.5	571.7
52.5°	227.9	231.1	210.8	191.8	264.0	283.6	279.8	345.0	359.0	448.2
55°	160.2	170.3	160.8	158.9	150.0	220.3	212.1	265.3	274.1	340.6
57.5°	16.5	19.0	32.9	118.4	98.1	124.7	151.3	194.4	203.2	251.3
60°	1.3	1.3	3.2	16.5	71.5	74.7	104.5	119.7	136.8	175.4
62.5°	0.0	0.6	1.3	2.5	11.4	39.9	52.5	62.7	82.3	113.3
65°	0.0	0.0	0.6	1.9	2.5	15.2	20.3	32.9	45.0	70.3
67.5°	0.0	0.0	0.6	1.3	1.9	3.8	7.0	12.0	24.1	39.9
70°	0.0	0.0	0.6	1.3	1.9	3.2	5.1	7.6	10.8	21.5
72.5°	0.0	0.0	0.6	0.6	1.3	3.2	3.8	5.1	7.6	10.8
75°	0.0	0.0	0.6	0.6	1.9	3.8	3.2	3.8	5.1	7.0
77.5°	0.0	0.0	0.6	1.3	1.9	3.8	3.2	3.8	3.8	4.4
80°	0.0	0.0	0.6	1.3	2.5	4.4	3.8	3.8	3.2	3.2
82.5°	0.0	0.0	0.6	1.9	2.5	5.7	5.7	5.1	2.5	1.9
85°	0.0	0.0	1.3	2.5	3.8	6.3	6.3	5.1	1.9	1.3
87.5°	0.0	0.0	1.3	1.9	3.2	4.4	6.3	5.1	1.9	0.6
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°
3421.3	0°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
3410.5	2.5°	3427.6	3423.8	3436.5	3441.6	3448.5	3421.9	3405.5	3406.1	3375.7
3371.9	5°	3392.2	3392.8	3409.3	3408.0	3415.0	3400.4	3394.1	3383.3	3356.7
3323.2	7.5°	3347.2	3341.5	3357.4	3369.4	3351.7	3361.8	3347.2	3352.3	3336.5
3280.1	10°	3312.4	3299.1	3313.7	3321.9	3322.5	3312.4	3298.5	3285.2	3279.5
3213.0	12.5°	3235.2	3218.1	3242.8	3254.2	3252.3	3232.6	3216.8	3220.0	3201.6
3095.3	15°	3128.8	3129.4	3147.2	3157.9	3147.8	3143.4	3144.6	3137.0	3121.2
2932.5	17.5°	2966.1	2975.6	3022.4	3048.4	3054.1	3045.2	3040.8	3031.9	3016.1
2673.0	20°	2695.1	2752.1	2835.7	2916.1	2931.9	2929.4	2913.6	2909.8	2900.9
2415.9	22.5°	2457.1	2499.5	2596.4	2721.7	2786.3	2792.6	2773.6	2767.9	2758.4
2186.1	25°	2210.8	2256.4	2343.8	2479.9	2613.5	2640.7	2637.5	2620.4	2610.3
1982.3	27.5°	2003.1	2048.7	2127.9	2250.7	2393.8	2481.1	2489.4	2462.1	2461.5
1800.6	30°	1815.7	1878.4	1938.6	2038.6	2177.3	2308.3	2322.2	2303.2	2305.1
1634.0	32.5°	1668.9	1720.8	1772.1	1839.2	1954.4	2107.0	2161.4	2143.7	2136.7
1495.4	35°	1518.8	1554.3	1606.8	1668.2	1746.7	1898.1	1992.4	1979.1	1972.1
1308.0	37.5°	1347.9	1408.7	1446.6	1515.7	1577.1	1697.4	1830.3	1828.4	1813.8
1148.5	40°	1172.5	1236.5	1294.1	1363.7	1411.2	1506.8	1654.3	1653.7	1655.6
983.2	42.5°	1013.6	1072.5	1142.1	1218.1	1263.7	1333.3	1491.6	1500.5	1511.2
847.1	45°	869.9	923.1	987.6	1080.1	1135.2	1175.0	1315.6	1356.1	1355.5
725.5	47.5°	740.7	790.7	845.2	935.1	1005.4	1041.5	1158.0	1215.6	1211.8
595.1	50°	621.7	666.0	723.0	788.2	882.5	914.2	1000.9	1076.9	1071.2
474.2	52.5°	500.2	561.6	609.7	669.2	768.6	799.6	866.7	940.8	936.4
355.8	55°	390.0	449.5	507.8	559.0	642.6	688.8	736.9	812.9	811.6
278.6	57.5°	295.0	360.2	415.3	464.1	530.5	587.5	626.1	695.2	704.0
190.6	60°	218.4	268.4	327.9	382.4	434.9	493.8	519.8	587.5	591.3
130.4	62.5°	148.8	203.9	262.1	311.5	350.7	411.5	434.9	490.7	497.6
83.6	65°	103.2	138.7	205.1	240.6	288.7	340.6	364.0	408.4	422.3
48.1	67.5°	68.4	98.8	160.2	192.5	239.9	275.4	305.2	341.2	356.4
30.4	70°	37.4	72.8	114.6	151.9	193.1	227.3	256.4	285.5	298.8
13.9	72.5°	25.3	48.7	79.8	120.3	155.7	189.3	215.3	236.8	237.4
8.2	75°	12.7	32.9	60.8	93.1	121.6	154.5	177.9	190.6	175.4
5.1	77.5°	7.6	24.1	49.4	74.7	98.8	124.7	138.0	145.0	120.3
3.8	80°	4.4	17.1	38.6	59.5	68.4	91.8	104.5	106.4	80.4
2.5	82.5°	3.2	12.7	30.4	43.7	41.8	64.6	78.5	76.0	51.3
1.9	85°	1.9	8.9	19.0	27.2	25.3	42.4	45.6	46.8	29.8
1.3	87.5°	1.3	5.1	10.1	14.6	12.0	18.4	18.4	22.2	14.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3421.3
3336.5
3350.4
3309.9
3254.2
3185.8
3105.4
3009.2
2880.6
2755.9
2599.5
2460.2
2295.6
2137.4
1962.6
1825.9
1655.6
1505.5
1356.7
1213.0
1076.3
945.9
814.8
700.2
597.0
498.9
419.1
354.5
293.8
231.7
164.0
115.9
75.3
47.5
27.2
12.7
0.0

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