

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: P636709

Luminaire Tested: **IFLD-S-SA2B-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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: 5560.1 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

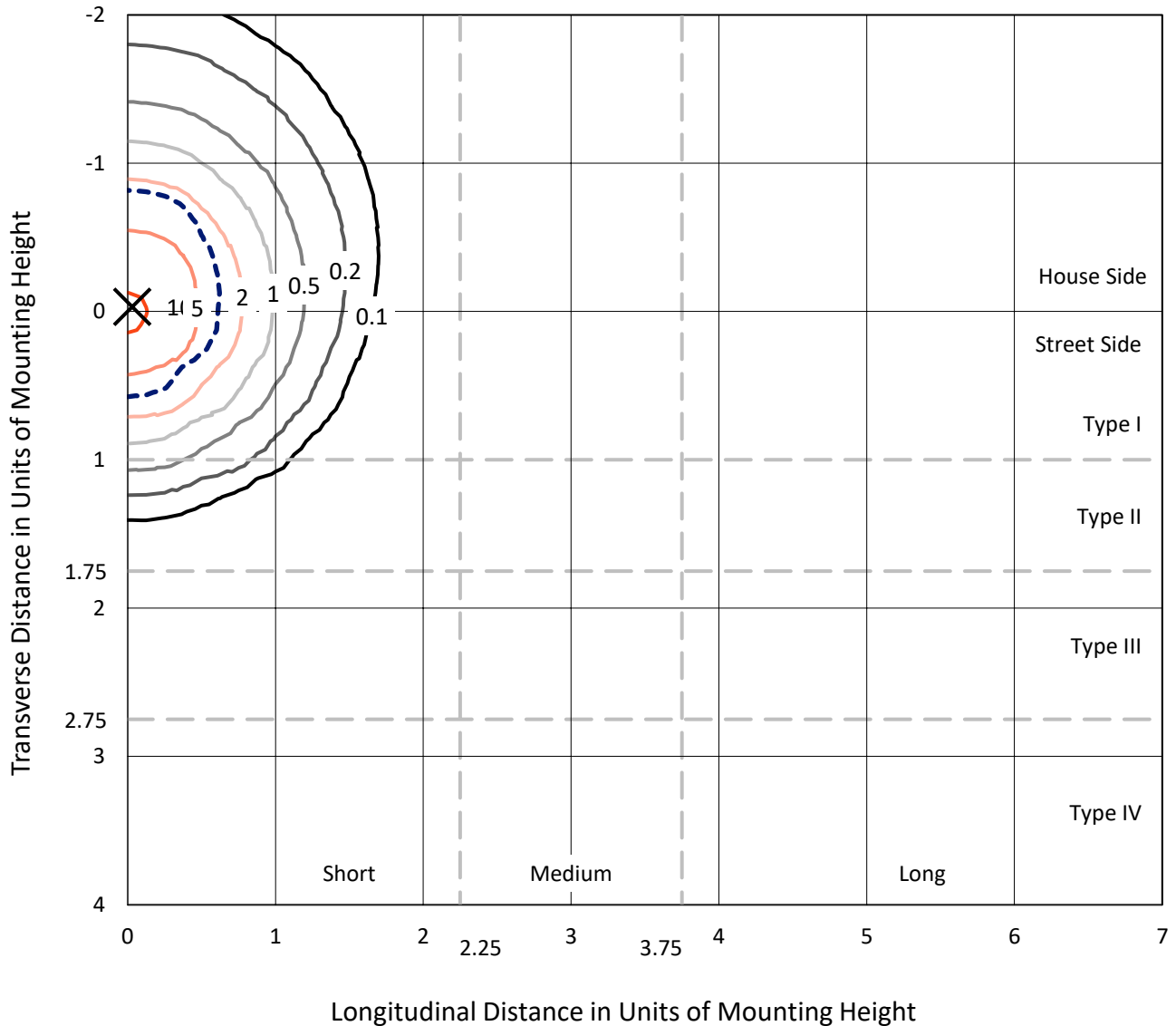
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

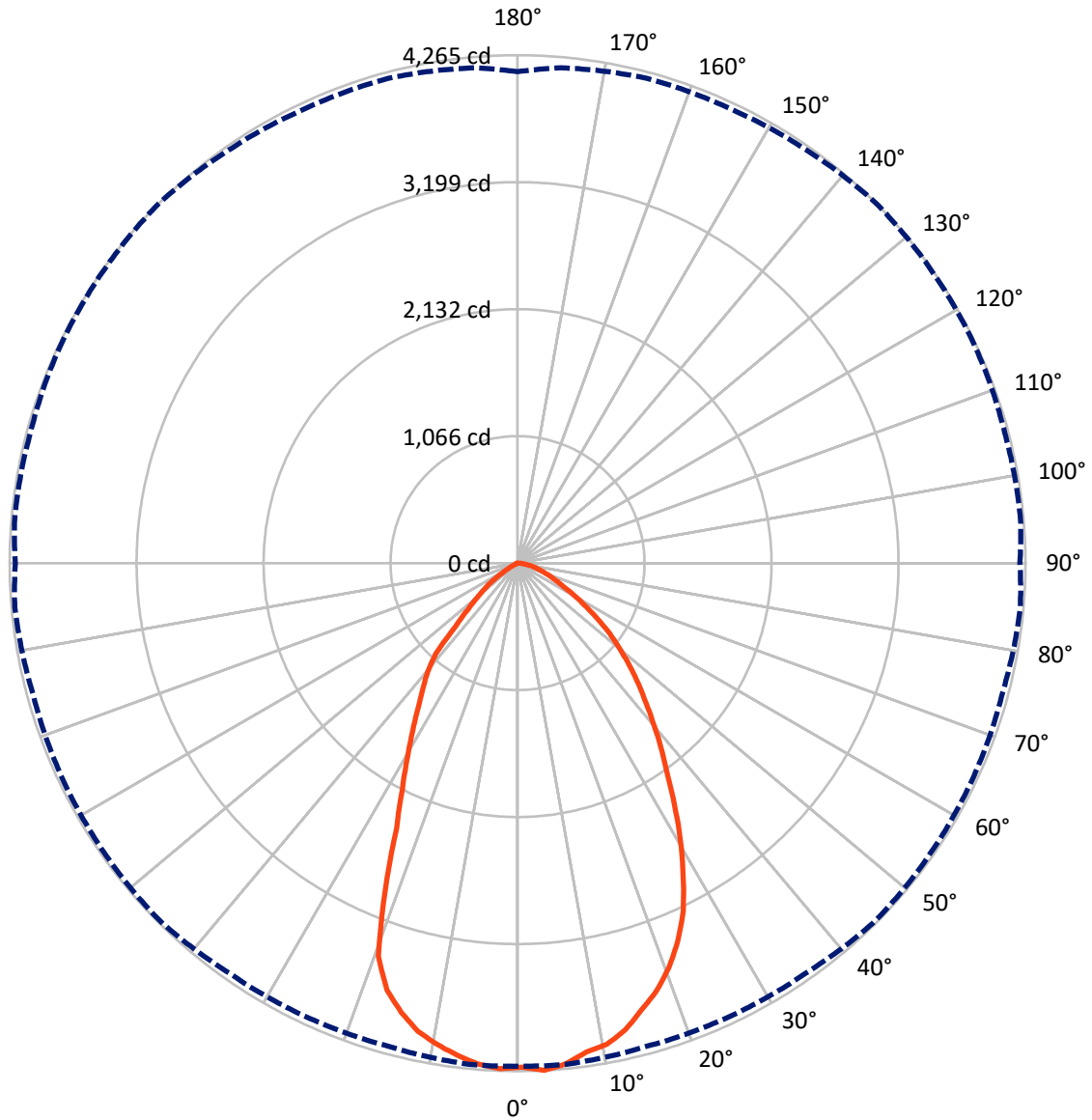
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	3293.0	0.0	3293.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2267.1	0.0	2267.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	5560.1	0.0	5560.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.8	7.1
10°-20°	1064.1	19.1
20°-30°	1297.7	23.3
30°-40°	1184.8	21.3
40°-50°	856.2	15.4
50°-60°	467.5	8.4
60°-70°	193.3	3.5
70°-80°	78.3	1.4
80°-90°	21.3	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°	5560.1	100.0
0°-180°	5560.1	100.0



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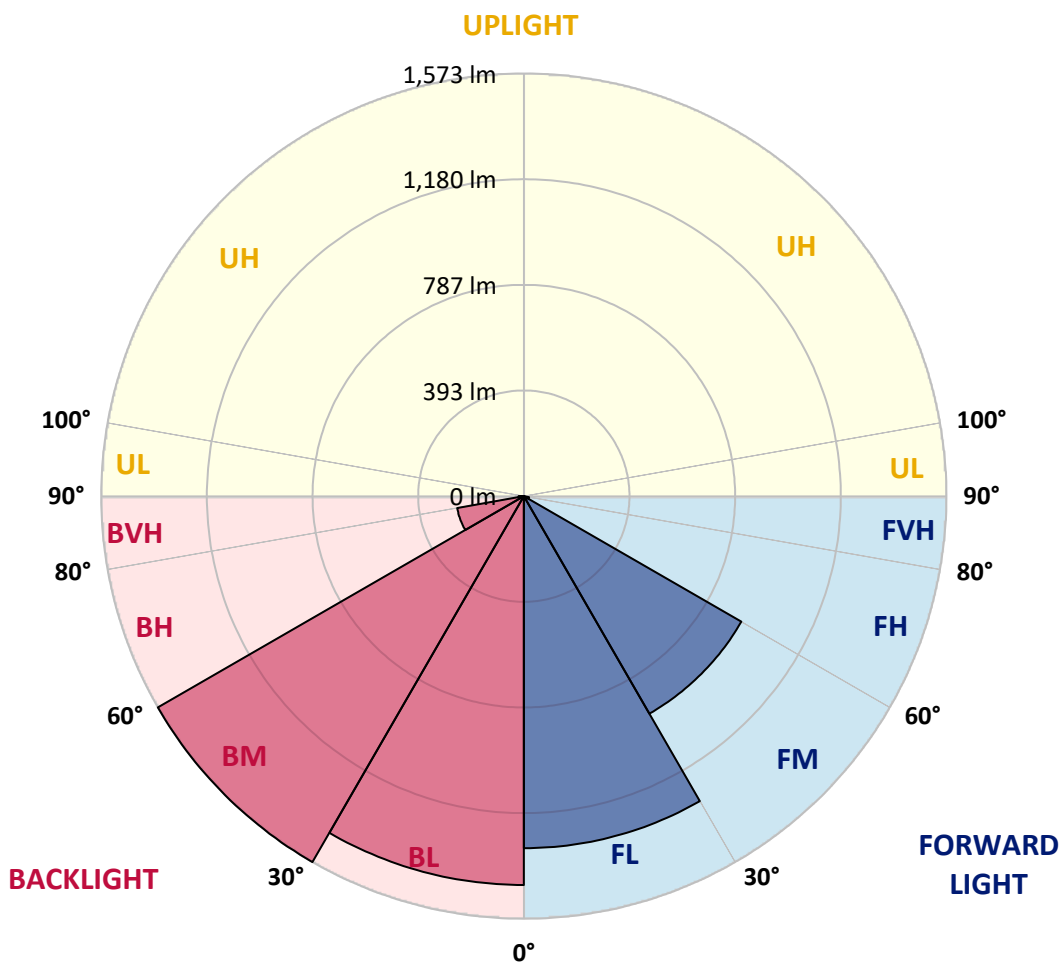
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.7	23.6			
FM (30°-60°)	935.1	16.8			
FH (60°-80°)	19.6	0.4			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1447.9	26.0	B3/2500		
BM (30°-60°)	1573.5	28.3	B2/2500		
BH (60°-80°)	252.0	4.5	B1/500		G1/500
BVH (80°-90°)	19.6	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°	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2
2.5°	4223.4	4228.9	4199.1	4202.3	4207.7	4247.7	4237.5	4228.1	4214.8	4237.5
5°	4217.9	4221.1	4189.7	4178.8	4183.5	4219.5	4186.6	4186.6	4183.5	4179.6
7.5°	4175.6	4177.2	4152.9	4133.4	4145.9	4162.3	4138.1	4149.8	4132.6	4145.9
10°	4112.2	4102.0	4073.1	4067.6	4081.7	4097.3	4080.9	4091.9	4076.2	4086.4
12.5°	4019.0	4003.4	3979.9	3972.8	3997.1	4018.3	4005.0	3998.7	3978.3	4003.4
15°	3659.7	3647.9	3701.2	3794.3	3878.1	3896.1	3882.0	3888.3	3846.0	3853.1
17.5°	3012.1	2990.2	3047.4	3268.2	3582.9	3748.9	3736.4	3695.7	3633.0	3647.1
20°	2737.3	2731.0	2724.8	2777.2	2997.3	3500.7	3517.9	3414.6	3325.3	3305.7
22.5°	2582.3	2579.9	2573.7	2585.4	2643.3	2966.7	3164.0	3068.5	3009.0	3003.5
25°	2440.6	2436.6	2417.8	2432.7	2432.7	2451.5	2704.4	2762.4	2709.9	2703.6
27.5°	2296.5	2289.4	2286.3	2293.4	2257.3	2130.5	2194.7	2477.4	2449.9	2451.5
30°	2140.7	2138.3	2129.7	2144.6	2033.4	1876.0	1835.3	2219.0	2224.5	2222.9
32.5°	1908.9	1919.1	1958.2	1974.7	1791.5	1661.5	1593.4	1919.9	2031.8	2029.5
35°	1386.7	1386.7	1514.3	1751.5	1569.9	1472.0	1435.2	1627.8	1841.6	1849.4
37.5°	1140.0	1143.9	1169.0	1277.0	1354.6	1320.1	1309.1	1370.2	1597.3	1609.8
40°	1025.7	1025.7	1025.7	981.1	978.7	1189.3	1183.1	1163.5	1379.6	1407.0
42.5°	921.6	923.9	925.5	812.7	750.1	1028.1	1014.0	984.2	1184.7	1216.8
45°	814.3	818.2	822.9	679.6	652.2	739.9	858.1	825.3	992.0	1033.5
47.5°	497.2	503.5	609.9	576.3	579.4	570.8	700.0	694.5	813.5	872.2
50°	335.9	338.2	348.4	365.7	497.2	448.6	495.6	574.7	617.8	707.0
52.5°	281.9	285.8	260.7	237.2	326.5	350.8	346.1	426.7	444.0	554.4
55°	198.1	210.6	198.9	196.5	185.6	272.5	262.3	328.1	339.0	421.2
57.5°	20.4	23.5	40.7	146.4	121.4	154.2	187.1	240.4	251.3	310.8
60°	1.6	1.6	3.9	20.4	88.5	92.4	129.2	148.0	169.1	216.9
62.5°	0.0	0.8	1.6	3.1	14.1	49.3	65.0	77.5	101.8	140.2
65°	0.0	0.0	0.8	2.3	3.1	18.8	25.1	40.7	55.6	86.9
67.5°	0.0	0.0	0.8	1.6	2.3	4.7	8.6	14.9	29.8	49.3
70°	0.0	0.0	0.8	1.6	2.3	3.9	6.3	9.4	13.3	26.6
72.5°	0.0	0.0	0.8	0.8	1.6	3.9	4.7	6.3	9.4	13.3
75°	0.0	0.0	0.8	0.8	2.3	4.7	3.9	4.7	6.3	8.6
77.5°	0.0	0.0	0.8	1.6	2.3	4.7	3.9	4.7	4.7	5.5
80°	0.0	0.0	0.8	1.6	3.1	5.5	4.7	4.7	3.9	3.9
82.5°	0.0	0.0	0.8	2.3	3.1	7.0	7.0	6.3	3.1	2.3
85°	0.0	0.0	1.6	3.1	4.7	7.8	7.8	6.3	2.3	1.6
87.5°	0.0	0.0	1.6	2.3	3.9	5.5	7.8	6.3	2.3	0.8
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°
4231.2	0°	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2
4217.9	2.5°	4239.1	4234.4	4250.0	4256.3	4264.9	4232.0	4211.7	4212.4	4174.9
4170.2	5°	4195.2	4196.0	4216.4	4214.8	4223.4	4205.4	4197.6	4184.3	4151.4
4109.9	7.5°	4139.6	4132.6	4152.2	4167.0	4145.1	4157.6	4139.6	4145.9	4126.3
4056.6	10°	4096.6	4080.1	4098.1	4108.3	4109.1	4096.6	4079.3	4062.9	4055.8
3973.6	12.5°	4001.0	3979.9	4010.4	4024.5	4022.2	3997.9	3978.3	3982.2	3959.5
3828.0	15°	3869.5	3870.3	3892.2	3905.5	3893.0	3887.5	3889.1	3879.7	3860.1
3626.8	17.5°	3668.3	3680.0	3738.0	3770.1	3777.1	3766.1	3760.7	3749.7	3730.1
3305.7	20°	3333.2	3403.6	3507.0	3606.4	3626.0	3622.9	3603.3	3598.6	3587.6
2987.9	22.5°	3038.8	3091.2	3211.0	3366.0	3445.9	3453.7	3430.2	3423.2	3411.5
2703.6	25°	2734.2	2790.5	2898.6	3066.9	3232.1	3265.8	3261.9	3240.8	3228.2
2451.5	27.5°	2477.4	2533.7	2631.6	2783.5	2960.5	3068.5	3078.7	3045.0	3044.2
2226.8	30°	2245.6	2323.1	2397.5	2521.2	2692.7	2854.8	2872.0	2848.5	2850.8
2020.9	32.5°	2063.9	2128.1	2191.6	2274.6	2417.1	2605.8	2673.1	2651.2	2642.6
1849.4	35°	1878.4	1922.2	1987.2	2063.2	2160.2	2347.4	2464.0	2447.6	2439.0
1617.6	37.5°	1667.0	1742.1	1789.1	1874.5	1950.4	2099.2	2263.6	2261.3	2243.2
1420.3	40°	1450.1	1529.2	1600.4	1686.5	1745.3	1863.5	2045.9	2045.1	2047.5
1216.0	42.5°	1253.6	1326.4	1412.5	1506.5	1562.8	1649.0	1844.7	1855.7	1869.0
1047.6	45°	1075.8	1141.6	1221.5	1335.8	1403.9	1453.2	1627.0	1677.1	1676.4
897.3	47.5°	916.1	977.9	1045.3	1156.5	1243.4	1288.0	1432.1	1503.3	1498.6
736.0	50°	768.9	823.7	894.2	974.8	1091.5	1130.6	1237.9	1331.9	1324.8
586.5	52.5°	618.6	694.5	754.0	827.6	950.5	988.9	1071.9	1163.5	1158.0
440.0	55°	482.3	555.9	628.0	691.4	794.7	851.9	911.4	1005.3	1003.8
344.5	57.5°	364.9	445.5	513.6	573.9	656.1	726.6	774.4	859.7	870.7
235.7	60°	270.1	332.0	405.6	472.9	537.9	610.7	642.8	726.6	731.3
161.3	62.5°	184.0	252.1	324.2	385.2	433.8	508.9	537.9	606.8	615.4
103.4	65°	127.6	171.5	253.7	297.5	357.0	421.2	450.2	505.0	522.2
59.5	67.5°	84.6	122.1	198.1	238.0	296.8	340.6	377.4	422.0	440.8
37.6	70°	46.2	90.0	141.7	187.9	238.8	281.1	317.1	353.1	369.6
17.2	72.5°	31.3	60.3	98.7	148.8	192.6	234.1	266.2	292.8	293.6
10.2	75°	15.7	40.7	75.2	115.1	150.3	191.0	220.0	235.7	216.9
6.3	77.5°	9.4	29.8	61.1	92.4	122.1	154.2	170.7	179.3	148.8
4.7	80°	5.5	21.1	47.8	73.6	84.6	113.5	129.2	131.5	99.4
3.1	82.5°	3.9	15.7	37.6	54.0	51.7	79.9	97.1	94.0	63.4
2.3	85°	2.3	11.0	23.5	33.7	31.3	52.5	56.4	57.9	36.8
1.6	87.5°	1.6	6.3	12.5	18.0	14.9	22.7	22.7	27.4	18.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4231.2
4126.3
4143.5
4093.4
4024.5
3940.0
3840.5
3721.5
3562.6
3408.3
3214.9
3042.7
2839.1
2643.3
2427.2
2258.1
2047.5
1861.9
1677.9
1500.2
1331.1
1169.8
1007.7
866.0
738.4
617.0
518.3
438.5
363.3
286.6
202.8
143.3
93.2
58.7
33.7
15.7
0.0

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