

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: P636739

Luminaire Tested: **IFLD-S-SA2C-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6997 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

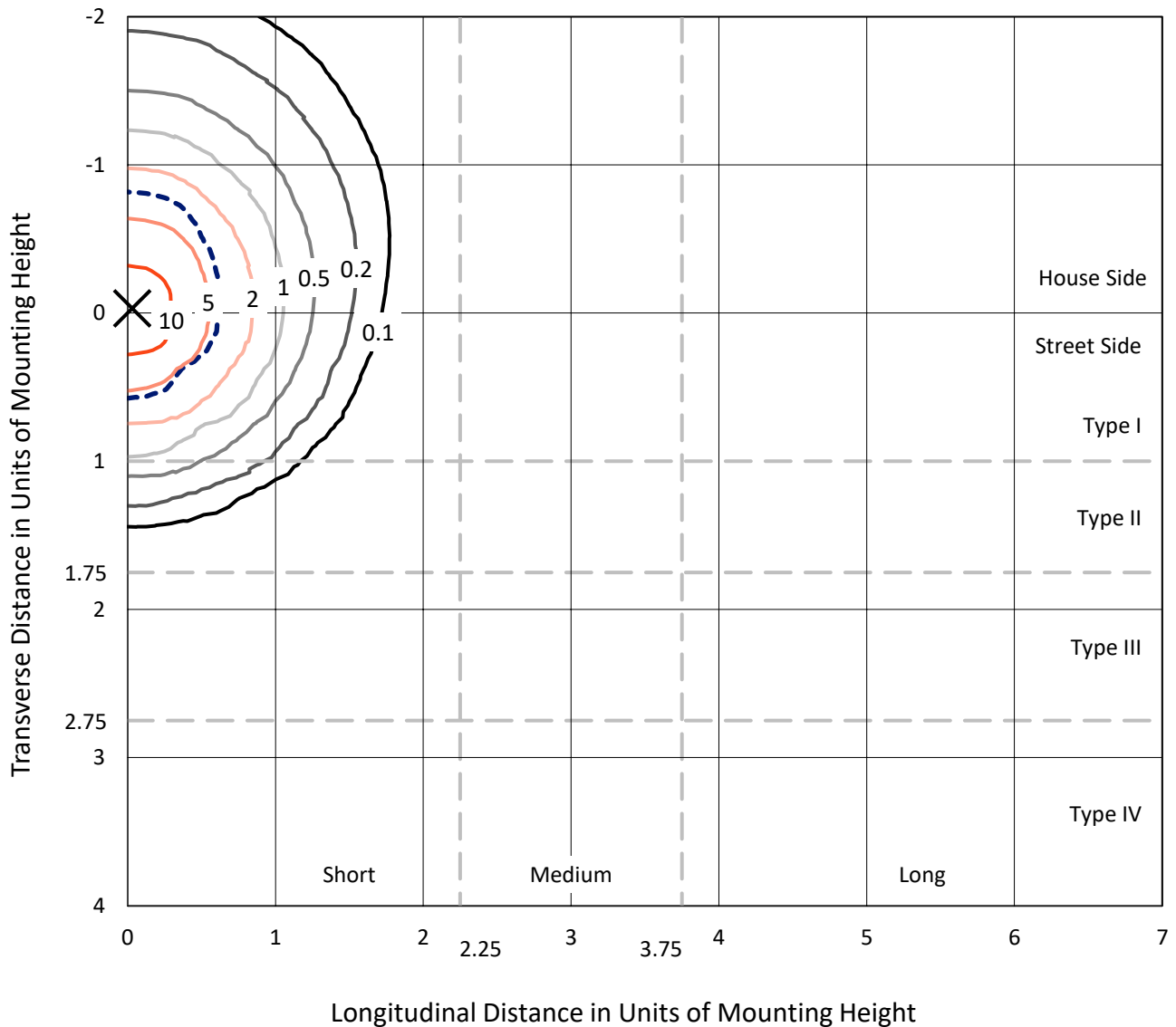
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

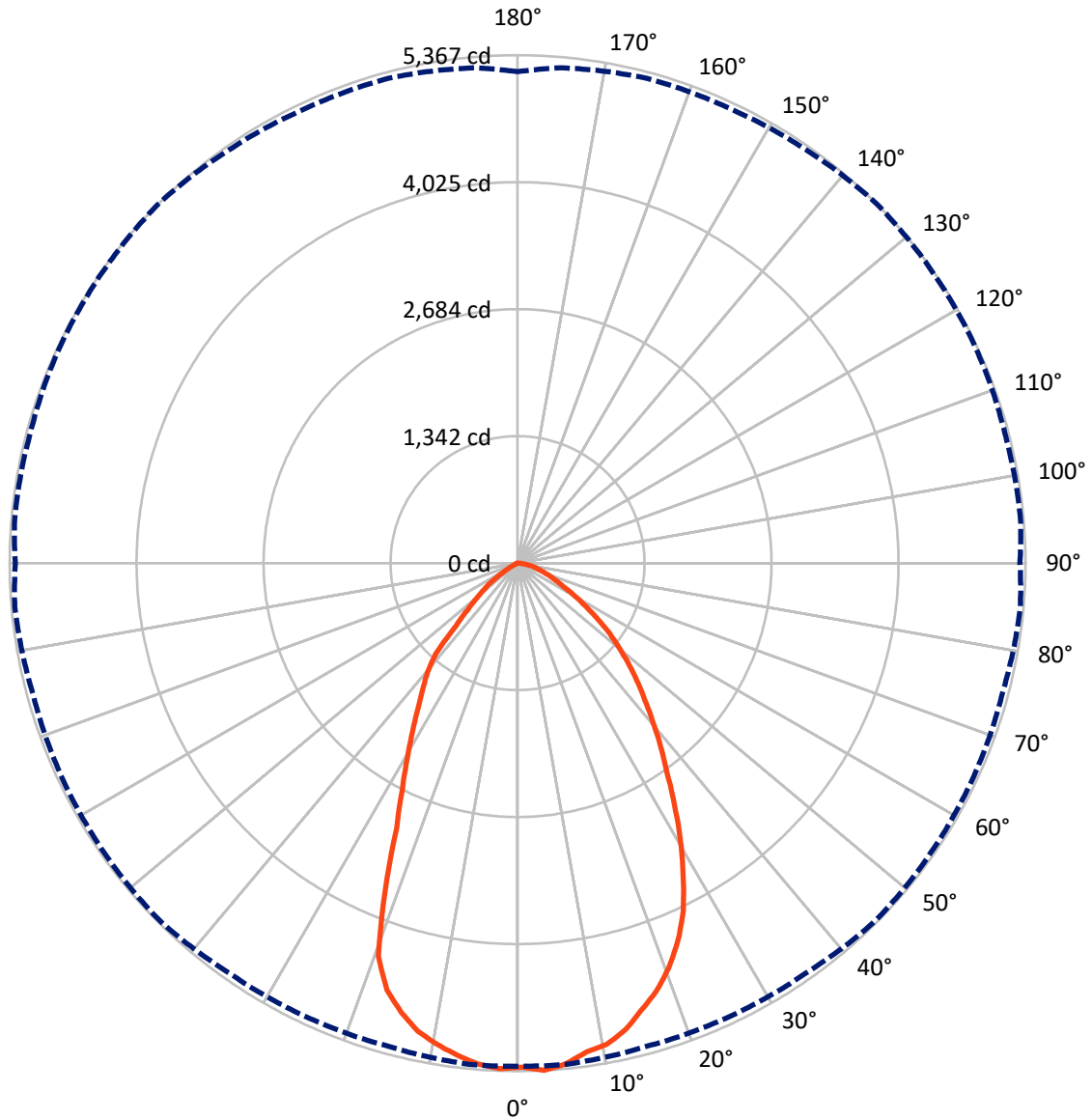
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 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	4143.9	0.0	4143.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2853.0	0.0	2853.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	6997.0	0.0	6997.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	7.1
10°-20°	1339.1	19.1
20°-30°	1633.1	23.3
30°-40°	1491.0	21.3
40°-50°	1077.5	15.4
50°-60°	588.3	8.4
60°-70°	243.3	3.5
70°-80°	98.5	1.4
80°-90°	26.8	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°	6997.0	100.0
0°-180°	6997.0	100.0



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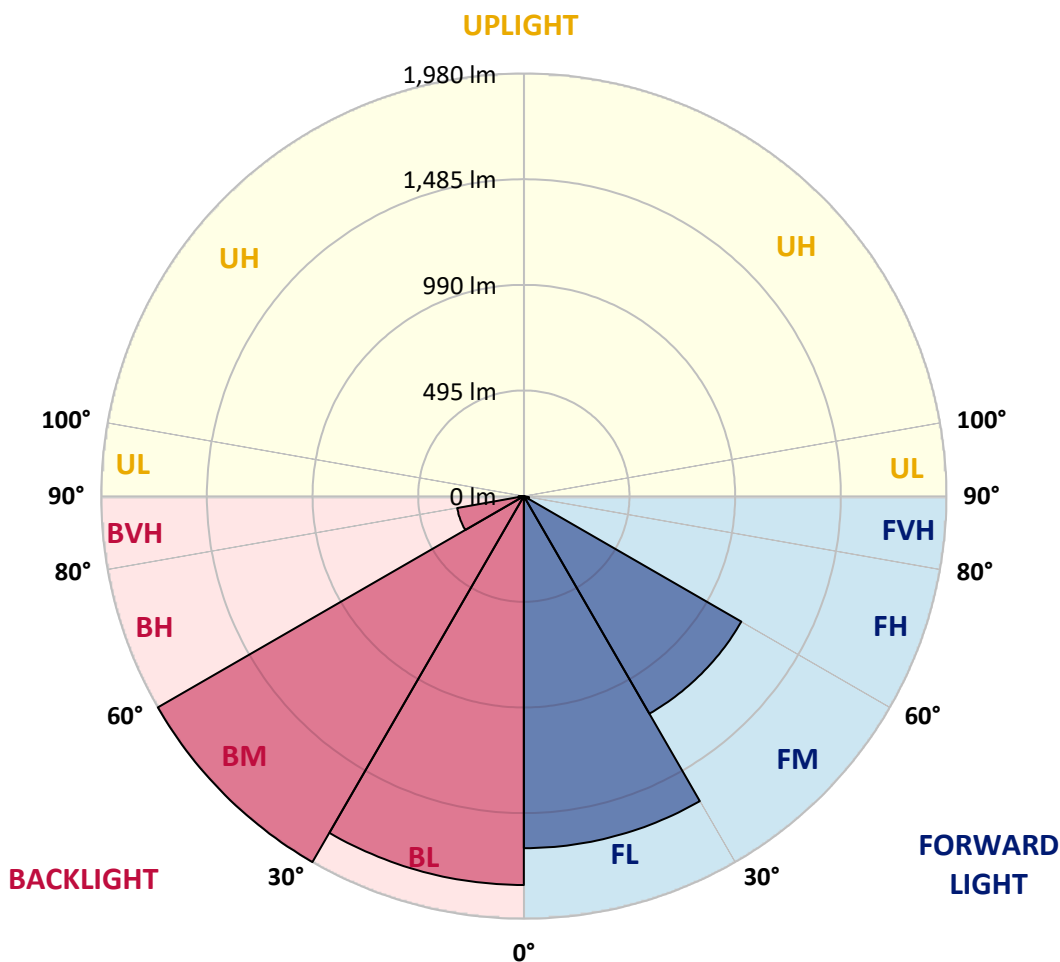
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.4	23.6			
FM (30°-60°)	1176.8	16.8			
FH (60°-80°)	24.7	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1822.1	26.0	B3/2500		
BM (30°-60°)	1980.1	28.3	B2/2500		
BH (60°-80°)	317.1	4.5	B1/500		G1/500
BVH (80°-90°)	24.7	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°	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7
2.5°	5314.8	5321.7	5284.3	5288.2	5295.1	5345.3	5332.5	5320.7	5304.0	5332.5
5°	5307.9	5311.8	5272.4	5258.6	5264.5	5309.9	5268.5	5268.5	5264.5	5259.6
7.5°	5254.7	5256.7	5226.1	5201.5	5217.3	5237.9	5207.4	5222.2	5200.5	5217.3
10°	5174.9	5162.1	5125.6	5118.7	5136.5	5156.2	5135.5	5149.3	5129.6	5142.4
12.5°	5057.6	5037.9	5008.4	4999.5	5030.0	5056.6	5039.9	5032.0	5006.4	5037.9
15°	4605.4	4590.6	4657.6	4774.8	4880.3	4902.9	4885.2	4893.1	4839.9	4848.7
17.5°	3790.5	3762.9	3834.9	4112.7	4508.8	4717.7	4701.9	4650.7	4571.9	4589.6
20°	3444.7	3436.8	3428.9	3494.9	3771.8	4405.4	4427.0	4297.0	4184.6	4160.0
22.5°	3249.6	3246.6	3238.7	3253.5	3326.4	3733.4	3981.7	3861.5	3786.6	3779.7
25°	3071.2	3066.3	3042.7	3061.4	3061.4	3085.0	3403.3	3476.2	3410.2	3402.3
27.5°	2889.9	2881.1	2877.1	2886.0	2840.7	2681.0	2761.8	3117.5	3083.1	3085.0
30°	2693.9	2690.9	2680.1	2698.8	2558.9	2360.8	2309.6	2792.4	2799.3	2797.3
32.5°	2402.2	2415.0	2464.3	2485.0	2254.4	2090.8	2005.1	2416.0	2556.9	2553.9
35°	1745.0	1745.0	1905.6	2204.2	1975.6	1852.4	1806.1	2048.5	2317.5	2327.3
37.5°	1434.6	1439.5	1471.1	1607.1	1704.6	1661.2	1647.4	1724.3	2010.0	2025.8
40°	1290.8	1290.8	1290.8	1234.6	1231.6	1496.7	1488.8	1464.2	1736.1	1770.6
42.5°	1159.7	1162.7	1164.6	1022.8	943.9	1293.7	1276.0	1238.5	1490.8	1531.2
45°	1024.7	1029.7	1035.6	855.3	820.8	931.1	1079.9	1038.5	1248.4	1300.6
47.5°	625.7	633.6	767.6	725.2	729.1	718.3	880.9	874.0	1023.7	1097.6
50°	422.7	425.7	438.5	460.1	625.7	564.6	623.7	723.2	777.4	889.7
52.5°	354.7	359.6	328.1	298.6	410.9	441.4	435.5	537.0	558.7	697.6
55°	249.3	265.1	250.3	247.3	233.5	342.9	330.1	412.8	426.6	530.1
57.5°	25.6	29.6	51.2	184.3	152.7	194.1	235.5	302.5	316.3	391.2
60°	2.0	2.0	4.9	25.6	111.3	116.3	162.6	186.2	212.8	272.9
62.5°	0.0	1.0	2.0	3.9	17.7	62.1	81.8	97.5	128.1	176.4
65°	0.0	0.0	1.0	3.0	3.9	23.6	31.5	51.2	70.0	109.4
67.5°	0.0	0.0	1.0	2.0	3.0	5.9	10.8	18.7	37.4	62.1
70°	0.0	0.0	1.0	2.0	3.0	4.9	7.9	11.8	16.8	33.5
72.5°	0.0	0.0	1.0	1.0	2.0	4.9	5.9	7.9	11.8	16.8
75°	0.0	0.0	1.0	1.0	3.0	5.9	4.9	5.9	7.9	10.8
77.5°	0.0	0.0	1.0	2.0	3.0	5.9	4.9	5.9	5.9	6.9
80°	0.0	0.0	1.0	2.0	3.9	6.9	5.9	5.9	4.9	4.9
82.5°	0.0	0.0	1.0	3.0	3.9	8.9	8.9	7.9	3.9	3.0
85°	0.0	0.0	2.0	3.9	5.9	9.9	9.9	7.9	3.0	2.0
87.5°	0.0	0.0	2.0	3.0	4.9	6.9	9.9	7.9	3.0	1.0
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°
5324.7	0°	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7	5324.7
5307.9	2.5°	5334.5	5328.6	5348.3	5356.2	5367.0	5325.6	5300.0	5301.0	5253.7
5247.8	5°	5279.3	5280.3	5305.9	5304.0	5314.8	5292.1	5282.3	5265.5	5224.2
5171.9	7.5°	5209.4	5200.5	5225.1	5243.9	5216.3	5232.0	5209.4	5217.3	5192.6
5104.9	10°	5155.2	5134.5	5157.1	5170.0	5170.9	5155.2	5133.5	5112.8	5103.9
5000.5	12.5°	5035.0	5008.4	5046.8	5064.5	5061.6	5031.0	5006.4	5011.3	4982.7
4817.2	15°	4869.4	4870.4	4898.0	4914.8	4899.0	4892.1	4894.1	4882.2	4857.6
4564.0	17.5°	4616.2	4631.0	4703.9	4744.3	4753.2	4739.4	4732.5	4718.7	4694.0
4160.0	20°	4194.5	4283.2	4413.2	4538.4	4563.0	4559.1	4534.4	4528.5	4514.7
3760.0	22.5°	3824.0	3890.0	4040.8	4235.9	4336.4	4346.2	4316.7	4307.8	4293.0
3402.3	25°	3440.7	3511.7	3647.6	3859.5	4067.4	4109.8	4104.8	4078.2	4062.5
3085.0	27.5°	3117.5	3188.5	3311.7	3502.8	3725.5	3861.5	3874.3	3831.9	3830.9
2802.2	30°	2825.9	2923.4	3017.0	3172.7	3388.5	3592.5	3614.1	3584.6	3587.5
2543.1	32.5°	2597.3	2678.1	2757.9	2862.3	3041.7	3279.1	3363.9	3336.3	3325.4
2327.3	35°	2363.8	2419.0	2500.7	2596.3	2718.5	2954.0	3100.8	3080.1	3069.3
2035.7	37.5°	2097.7	2192.3	2251.4	2358.8	2454.4	2641.6	2848.6	2845.6	2822.9
1787.4	40°	1824.8	1924.3	2014.0	2122.4	2196.3	2345.1	2574.6	2573.6	2576.6
1530.2	42.5°	1577.5	1669.1	1777.5	1895.7	1966.7	2075.1	2321.4	2335.2	2352.0
1318.4	45°	1353.8	1436.6	1537.1	1681.0	1766.7	1828.7	2047.5	2110.5	2109.6
1129.2	47.5°	1152.8	1230.7	1315.4	1455.3	1564.7	1620.8	1802.1	1891.8	1885.9
926.2	50°	967.6	1036.6	1125.2	1226.7	1373.5	1422.8	1557.8	1676.0	1667.2
738.0	52.5°	778.4	874.0	948.9	1041.5	1196.2	1244.5	1348.9	1464.2	1457.3
553.7	55°	607.0	699.6	790.2	870.0	1000.1	1072.0	1146.9	1265.1	1263.2
433.5	57.5°	459.2	560.6	646.4	722.2	825.7	914.4	974.5	1081.9	1095.7
296.6	60°	339.9	417.8	510.4	595.1	676.9	768.5	808.9	914.4	920.3
203.0	62.5°	231.5	317.3	407.9	484.8	545.9	640.5	676.9	763.6	774.5
130.1	65°	160.6	215.8	319.2	374.4	449.3	530.1	566.6	635.5	657.2
74.9	67.5°	106.4	153.7	249.3	299.5	373.4	428.6	474.9	531.1	554.7
47.3	70°	58.1	113.3	178.3	236.5	300.5	353.7	399.1	444.4	465.1
21.7	72.5°	39.4	75.9	124.1	187.2	242.4	294.6	335.0	368.5	369.5
12.8	75°	19.7	51.2	94.6	144.8	189.2	240.4	276.9	296.6	272.9
7.9	77.5°	11.8	37.4	76.9	116.3	153.7	194.1	214.8	225.6	187.2
5.9	80°	6.9	26.6	60.1	92.6	106.4	142.9	162.6	165.5	125.1
3.9	82.5°	4.9	19.7	47.3	68.0	65.0	100.5	122.2	118.2	79.8
3.0	85°	3.0	13.8	29.6	42.4	39.4	66.0	70.9	72.9	46.3
2.0	87.5°	2.0	7.9	15.8	22.7	18.7	28.6	28.6	34.5	22.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5324.7
5192.6
5214.3
5151.2
5064.5
4958.1
4833.0
4683.2
4483.2
4289.1
4045.7
3828.9
3572.8
3326.4
3054.5
2841.7
2576.6
2343.1
2111.5
1887.9
1675.0
1472.1
1268.1
1089.8
929.2
776.4
652.3
551.8
457.2
360.6
255.2
180.3
117.3
73.9
42.4
19.7
0.0

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