

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: P636568

Luminaire Tested: **IFLD-S-SA3A-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.4 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

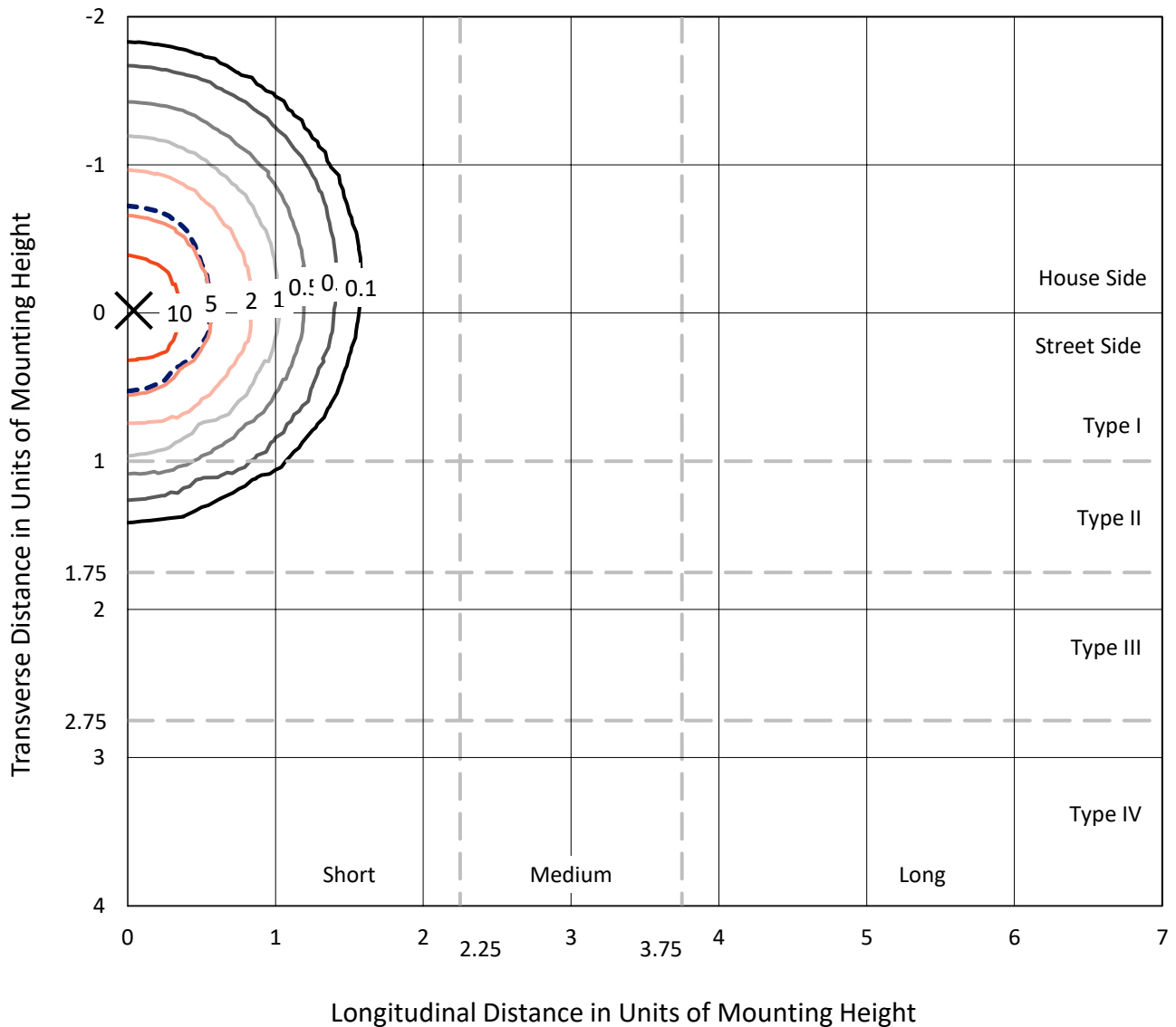
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

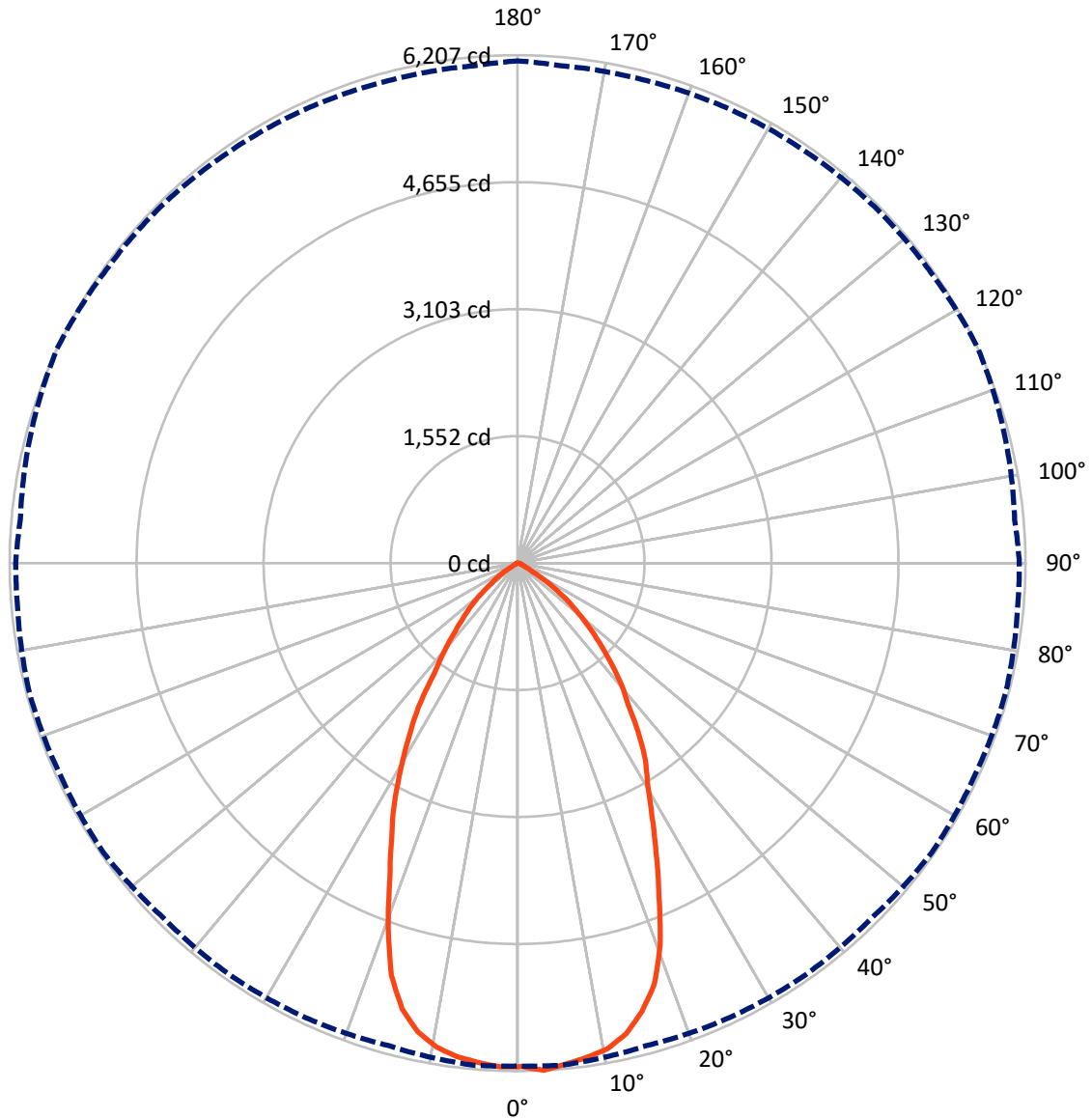
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3969.0	0.0	3969.0
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	2966.3	0.0	2966.3
	% Fixture	42.8	0.0	42.8
Total	Lumens	6935.4	0.0	6935.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.6	8.4
10°-20°	1536.7	22.2
20°-30°	1757.7	25.3
30°-40°	1506.3	21.7
40°-50°	996.0	14.4
50°-60°	434.6	6.3
60°-70°	85.4	1.2
70°-80°	30.8	0.4
80°-90°	8.2	0.1
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°	6935.4	100.0
0°-180°	6935.4	100.0



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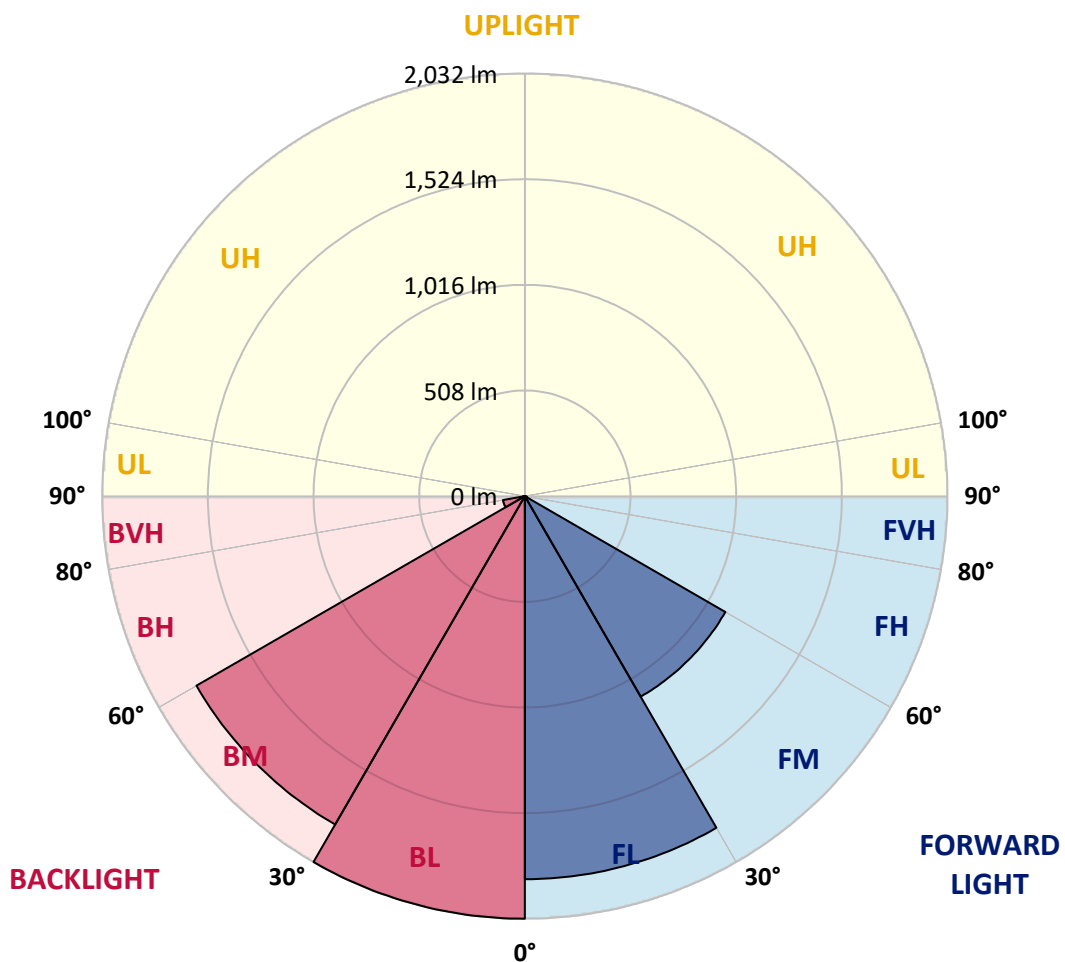
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.9	26.6			
FM (30°-60°)	1113.7	16.1			
FH (60°-80°)	9.4	0.1			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	2032.1	29.3	B3/2500		
BM (30°-60°)	1823.3	26.3	B2/2500		
BH (60°-80°)	106.8	1.5	B0/110		G0/110
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5
2.5°	6144.6	6159.3	6103.3	6128.4	6138.7	6125.4	6174.1	6159.3	6171.1	6134.3
5°	6144.6	6159.3	6094.5	6106.3	6109.2	6084.2	6137.2	6119.5	6121.0	6082.7
7.5°	6106.3	6124.0	6065.0	6073.8	6075.3	6054.7	6100.4	6075.3	6066.5	6026.7
10°	6003.1	6013.4	5960.3	5982.4	6003.1	5983.9	6023.7	5995.7	5995.7	5960.3
12.5°	5839.4	5858.6	5799.6	5826.2	5843.9	5821.8	5867.5	5857.1	5858.6	5823.2
15°	5541.6	5475.3	5546.1	5599.1	5600.6	5596.2	5638.9	5628.6	5636.0	5582.9
17.5°	4093.9	4077.7	4160.3	4786.8	5252.7	5316.1	5323.5	5267.4	5242.4	5190.8
20°	3793.2	3805.0	3787.3	3790.3	4157.3	4919.5	4873.8	4735.2	4671.8	4620.2
22.5°	3573.5	3554.4	3542.6	3535.2	3545.5	4042.3	4371.1	4161.8	4127.9	4102.8
25°	3334.7	3325.9	3311.1	3308.2	3302.3	3218.3	3691.5	3710.6	3656.1	3625.1
27.5°	3112.1	3106.2	3090.0	3088.5	3020.7	2817.3	2868.9	3324.4	3309.7	3297.9
30°	2874.8	2863.0	2854.1	2854.1	2649.2	2439.9	2355.8	2898.3	2898.3	2888.0
32.5°	2616.8	2606.4	2609.4	2574.0	2329.3	2137.6	2005.0	2501.8	2656.6	2647.7
35°	1599.5	1596.6	1895.9	2289.5	2002.0	1828.1	1819.2	2140.6	2366.1	2389.7
37.5°	1424.1	1415.3	1419.7	1444.7	1714.5	1645.2	1642.3	1696.8	2013.8	2025.6
40°	1278.2	1272.3	1267.8	1177.9	1092.4	1468.3	1458.0	1422.6	1720.4	1741.1
42.5°	1139.6	1133.7	1133.7	1006.9	868.3	1207.4	1211.8	1170.5	1450.6	1458.0
45°	996.6	992.2	967.1	803.5	763.7	802.0	1004.0	956.8	1151.4	1228.0
47.5°	470.3	467.3	676.7	667.8	664.9	641.3	766.6	793.1	914.0	990.7
50°	377.4	374.5	356.8	314.0	546.9	486.5	552.8	610.3	648.7	719.4
52.5°	312.5	309.6	272.7	241.8	303.7	355.3	330.2	408.4	406.9	483.5
55°	204.9	190.2	209.3	197.5	159.2	258.0	252.1	309.6	302.2	368.6
57.5°	4.4	4.4	10.3	112.0	100.2	109.1	144.5	176.9	199.0	218.2
60°	1.5	1.5	2.9	5.9	41.3	45.7	56.0	64.9	91.4	113.5
62.5°	0.0	0.0	1.5	2.9	5.9	23.6	26.5	31.0	42.8	59.0
65°	0.0	0.0	0.0	1.5	2.9	5.9	8.8	19.2	26.5	33.9
67.5°	0.0	0.0	0.0	1.5	1.5	2.9	5.9	8.8	11.8	23.6
70°	0.0	0.0	0.0	1.5	1.5	2.9	4.4	5.9	8.8	11.8
72.5°	0.0	0.0	0.0	1.5	1.5	4.4	2.9	4.4	5.9	7.4
75°	0.0	0.0	0.0	1.5	1.5	1.5	2.9	4.4	4.4	5.9
77.5°	0.0	0.0	0.0	1.5	2.9	2.9	2.9	2.9	2.9	4.4
80°	0.0	0.0	0.0	1.5	1.5	2.9	4.4	5.9	2.9	2.9
82.5°	0.0	0.0	0.0	2.9	1.5	5.9	8.8	7.4	2.9	1.5
85°	0.0	0.0	0.0	1.5	5.9	7.4	7.4	4.4	1.5	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	4.4	4.4	1.5	1.5
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°
6153.5	0°	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5	6153.5
6131.3	2.5°	6097.4	6154.9	6206.5	6174.1	6162.3	6138.7	6121.0	6101.9	6100.4
6078.3	5°	6044.4	6098.9	6149.0	6110.7	6113.6	6101.9	6090.1	6085.6	6088.6
6023.7	7.5°	5998.7	6044.4	6098.9	6066.5	6075.3	6067.9	6062.1	6053.2	6066.5
5953.0	10°	5929.4	5970.6	6034.0	6003.1	5998.7	5991.3	5985.4	5969.2	5976.5
5824.7	12.5°	5777.5	5829.1	5901.4	5866.0	5877.8	5857.1	5848.3	5838.0	5839.4
5602.1	15°	5571.1	5610.9	5684.6	5656.6	5665.5	5652.2	5652.2	5652.2	5662.5
5198.1	17.5°	5211.4	5292.5	5409.0	5373.6	5386.9	5389.8	5386.9	5397.2	5410.4
4623.2	20°	4626.1	4764.7	4977.0	5046.3	5074.3	5075.8	5055.1	5080.2	5106.7
4085.1	22.5°	4088.1	4234.0	4421.2	4611.4	4729.3	4723.4	4726.4	4742.6	4770.6
3606.0	25°	3622.2	3762.2	3931.8	4101.3	4359.3	4412.4	4413.9	4428.6	4450.7
3278.7	27.5°	3286.1	3340.6	3495.4	3666.4	3943.6	4113.1	4104.3	4117.5	4141.1
2868.9	30°	2880.7	3090.0	3125.4	3230.0	3468.9	3779.9	3781.4	3796.2	3819.7
2627.1	32.5°	2619.7	2758.3	2867.4	2870.3	3073.8	3393.7	3457.1	3471.8	3488.0
2376.5	35°	2375.0	2391.2	2538.6	2579.9	2697.8	3014.8	3126.9	3135.7	3162.2
2021.2	37.5°	2055.1	2150.9	2192.2	2339.6	2345.5	2602.0	2824.6	2815.8	2836.4
1739.6	40°	1761.7	1853.1	1957.8	2065.4	2080.1	2271.8	2518.0	2526.8	2535.7
1443.3	42.5°	1455.1	1571.5	1679.2	1751.4	1851.6	1962.2	2196.6	2237.9	2258.5
1236.9	45°	1259.0	1291.4	1419.7	1525.8	1627.6	1679.2	1898.8	1974.0	1987.3
978.9	47.5°	992.2	1101.3	1188.2	1278.2	1404.9	1450.6	1609.9	1714.5	1724.9
726.8	50°	766.6	844.7	964.1	1045.2	1192.7	1217.7	1326.8	1462.4	1475.7
486.5	52.5°	548.4	654.6	771.0	849.2	990.7	1023.1	1104.2	1233.9	1242.8
373.0	55°	393.6	462.9	558.7	670.8	774.0	846.2	902.2	1026.1	1037.9
244.7	57.5°	268.3	333.2	373.0	485.0	546.9	625.1	670.8	765.1	774.0
116.5	60°	128.3	159.2	190.2	246.2	286.0	352.3	381.8	420.2	430.5
70.8	62.5°	82.6	97.3	123.8	147.4	185.8	227.0	238.8	271.3	283.1
44.2	65°	54.5	69.3	97.3	103.2	141.5	174.0	188.7	212.3	225.6
26.5	67.5°	31.0	48.6	72.2	85.5	112.0	143.0	159.2	179.9	191.7
17.7	70°	20.6	39.8	57.5	70.8	88.5	115.0	135.6	153.3	160.7
8.8	72.5°	11.8	25.1	39.8	56.0	70.8	95.8	115.0	129.7	85.5
5.9	75°	7.4	19.2	33.9	47.2	59.0	76.7	92.9	91.4	38.3
4.4	77.5°	5.9	14.7	29.5	39.8	48.6	53.1	66.3	75.2	29.5
2.9	80°	4.4	11.8	26.5	33.9	19.2	38.3	51.6	56.0	20.6
2.9	82.5°	2.9	7.4	22.1	23.6	13.3	28.0	41.3	36.9	14.7
1.5	85°	1.5	4.4	7.4	13.3	11.8	13.3	10.3	14.7	10.3
1.5	87.5°	1.5	2.9	5.9	5.9	5.9	4.4	5.9	5.9	5.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6153.5
6135.8
6125.4
6103.3
6011.9
5882.2
5667.0
5454.7
5124.4
4775.0
4489.0
4163.2
3861.0
3524.9
3190.2
2861.5
2563.7
2288.0
2019.7
1749.9
1494.9
1259.0
1048.2
791.7
442.3
286.0
225.6
190.2
159.2
69.3
38.3
29.5
22.1
14.7
10.3
5.9
0.0

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