

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: P638387

Luminaire Tested: **IFLD-L-SA8B-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638387
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27314.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

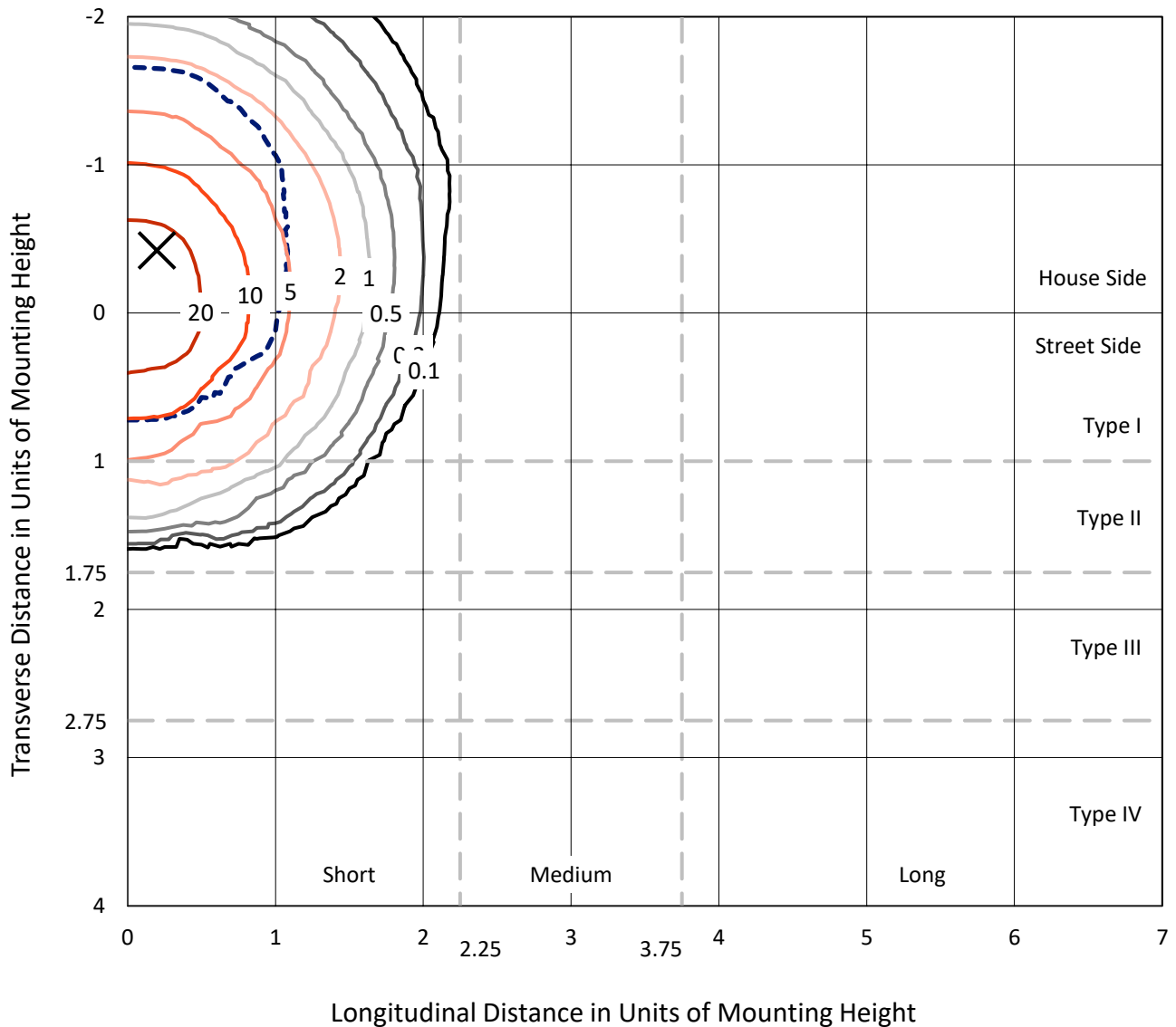
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

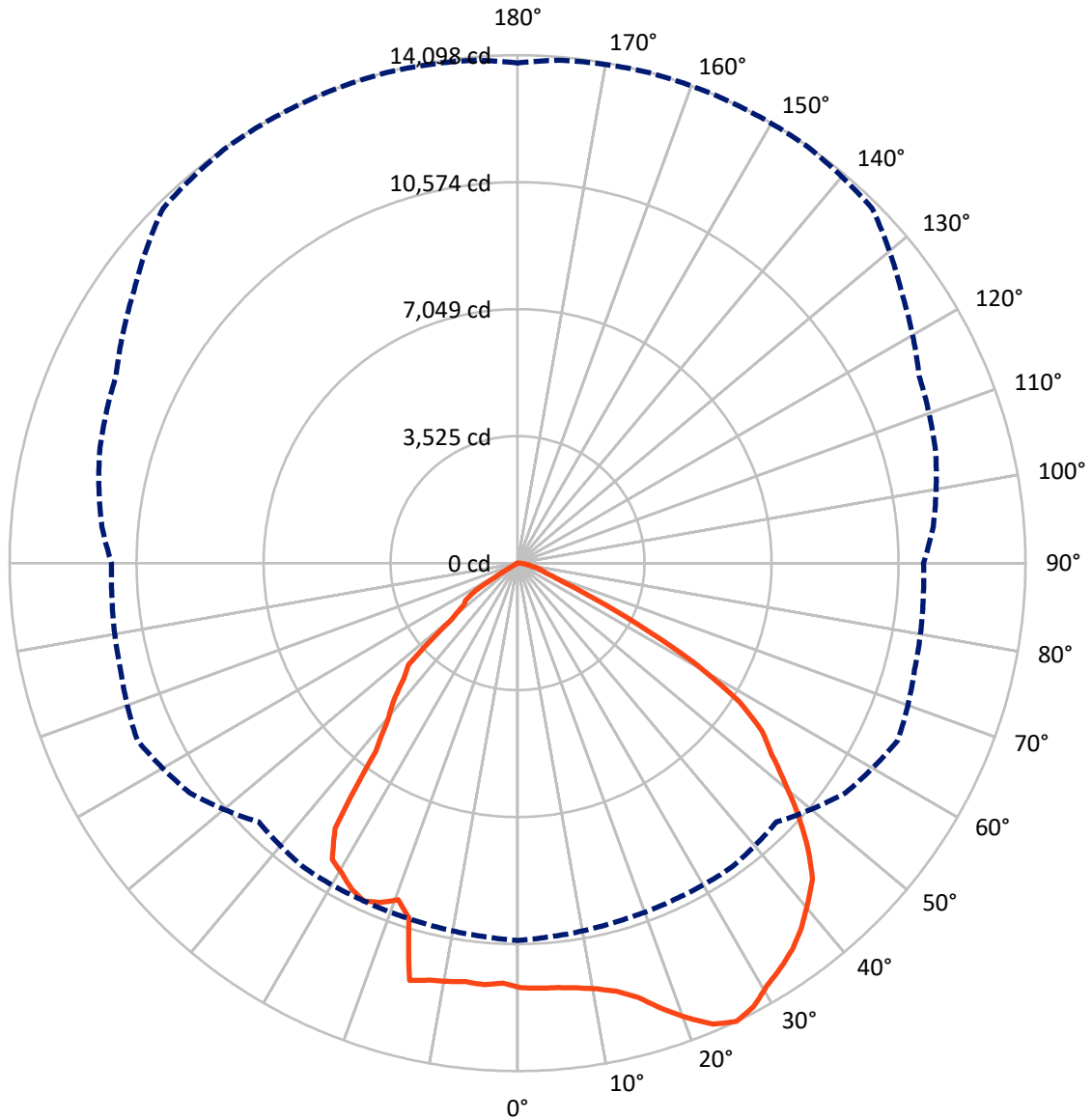
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16910.6	0.0	16910.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10404.1	0.0	10404.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	27314.7	0.0	27314.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1130.7	4.1
10°-20°	3452.5	12.6
20°-30°	5458.2	20.0
30°-40°	6165.5	22.6
40°-50°	5774.2	21.1
50°-60°	3980.9	14.6
60°-70°	1069.5	3.9
70°-80°	222.9	0.8
80°-90°	60.3	0.2
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°	27314.7	100.0
0°-180°	27314.7	100.0



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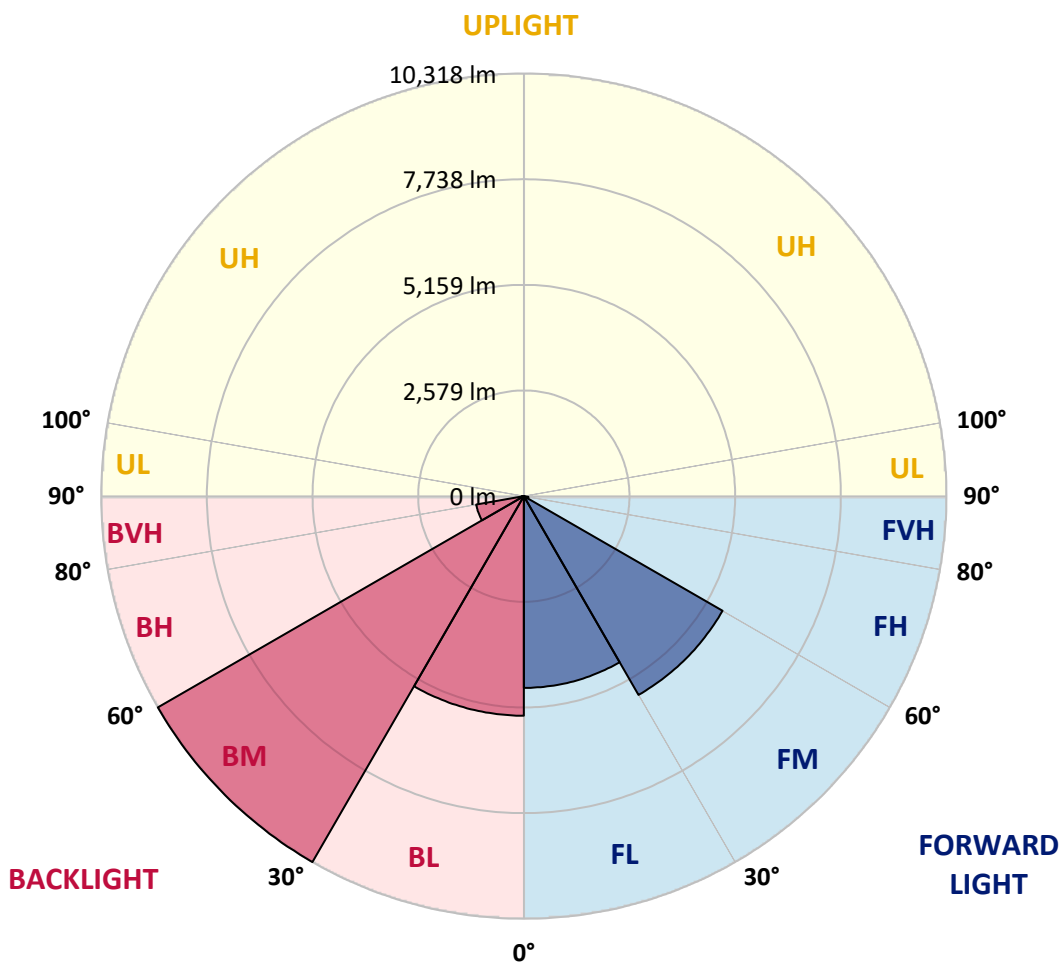
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4680.9	17.1			
FM (30°-60°)	5602.9	20.5			
FH (60°-80°)	112.3	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	5360.6	19.6	B5		
BM (30°-60°)	10317.7	37.8	B5		
BH (60°-80°)	1180.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8
2.5°	11838.0	11761.7	11689.5	11665.4	11765.8	11874.1	11805.9	11809.9	11785.8	11830.0
5°	11926.3	11822.0	11773.8	11737.7	11753.7	11866.1	11769.8	11805.9	11765.8	11817.9
7.5°	11894.2	11822.0	11773.8	11705.5	11757.7	11890.2	11797.9	11801.9	11781.8	11830.0
10°	11874.1	11822.0	11761.7	11769.8	11830.0	11942.4	11870.1	11910.3	11882.2	11910.3
12.5°	11922.3	11866.1	11834.0	11834.0	11886.2	12014.6	11978.5	12014.6	12002.6	12026.7
15°	11468.7	11520.9	11826.0	11962.5	12066.8	12195.3	12179.2	12215.3	12223.4	12259.5
17.5°	9674.3	9622.1	9598.1	10300.6	12167.2	12564.6	12552.5	12548.5	12508.4	12480.3
20°	9911.2	9891.1	9863.0	9915.2	10123.9	12757.3	12837.6	12343.8	12199.3	12187.2
22.5°	10288.5	10256.4	10152.0	10156.0	10220.3	11091.4	12440.1	11990.5	11942.4	11914.3
25°	10473.2	10408.9	10324.6	10300.6	10320.6	10160.1	11111.4	11645.3	11408.5	11300.1
27.5°	10148.0	10152.0	10083.8	10148.0	10071.7	9349.2	8943.7	10970.9	10962.9	10914.7
30°	9903.1	9891.1	9810.8	9891.1	9365.2	8558.4	8385.8	10232.3	10148.0	10083.8
32.5°	9152.5	9160.5	9393.3	9706.4	8843.4	8205.1	7683.3	9140.4	9939.3	9903.1
35°	6547.2	6563.3	7390.2	8935.7	8052.6	7502.6	7462.5	7900.0	9610.1	9626.2
37.5°	6302.4	6302.4	6282.3	6535.2	7430.4	7217.6	7297.9	7253.7	8803.2	8843.4
40°	6125.7	6089.6	6061.5	5664.1	5166.3	7016.9	7073.1	6872.4	8321.5	8329.6
42.5°	5913.0	5872.8	5880.9	5146.3	4624.4	6519.1	6362.6	6093.6	7518.7	7526.7
45°	5523.6	5591.8	5640.0	4504.0	4463.8	4656.5	5868.8	5700.2	6976.8	7125.3
47.5°	2810.0	2870.2	4403.6	4142.7	4235.0	4138.7	4957.6	4961.6	5804.6	6298.4
50°	2549.0	2533.0	2537.0	2416.6	3909.9	3347.9	3584.7	4548.1	4648.5	5355.0
52.5°	2376.4	2372.4	2127.5	1890.7	2456.7	2946.5	2601.2	3291.7	3456.3	4536.1
55°	1758.2	1886.7	1678.0	1778.3	1537.5	2360.4	2348.3	2970.5	3026.7	3636.9
57.5°	16.1	20.1	48.2	1352.8	1063.8	1180.2	1621.8	2027.2	2127.5	2834.1
60°	4.0	8.0	20.1	40.1	690.5	726.6	1083.8	1172.2	1320.7	1690.0
62.5°	0.0	0.0	8.0	20.1	36.1	297.1	345.2	377.3	582.1	863.1
65°	0.0	0.0	4.0	12.0	20.1	48.2	84.3	176.6	252.9	313.1
67.5°	0.0	0.0	4.0	8.0	16.1	24.1	48.2	68.2	108.4	184.7
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.2	64.2	92.3
72.5°	0.0	0.0	4.0	8.0	8.0	24.1	24.1	36.1	48.2	60.2
75°	0.0	0.0	4.0	4.0	8.0	16.1	24.1	28.1	32.1	48.2
77.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	32.1	28.1	28.1
80°	0.0	0.0	4.0	12.0	12.0	20.1	24.1	32.1	20.1	20.1
82.5°	0.0	0.0	4.0	16.1	12.0	40.1	40.1	44.2	16.1	16.1
85°	0.0	0.0	12.0	8.0	24.1	40.1	36.1	24.1	20.1	12.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	28.1	24.1	8.0	8.0
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°
11785.8	0°	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8	11785.8
11713.6	2.5°	11874.1	11822.0	11930.3	11918.3	11866.1	11842.0	11813.9	11789.8	11613.2
11721.6	5°	11878.2	11797.9	11930.3	11906.3	11898.2	11858.1	11834.0	11870.1	11709.6
11753.7	7.5°	11878.2	11797.9	11942.4	11950.4	11938.4	11906.3	11902.2	11926.3	11793.9
11809.9	10°	11958.4	11926.3	12046.7	12058.8	12042.7	12034.7	12014.6	11998.6	11858.1
12002.6	12.5°	12127.0	12062.8	12199.3	12235.4	12223.4	12243.4	12195.3	12219.4	12074.8
12199.3	15°	12331.8	12335.8	12440.1	12520.4	12512.4	12576.6	12504.4	12568.6	12464.2
12424.1	17.5°	12644.9	12689.0	12837.6	12958.0	13002.1	13050.3	13002.1	13022.2	12873.7
12175.2	20°	12315.7	12480.3	13194.8	13415.6	13507.9	13552.1	13471.8	13495.9	13347.4
11870.1	22.5°	12018.6	12231.4	12865.7	13556.1	13841.1	13929.4	13901.3	13897.3	13841.1
11268.0	25°	11581.1	12010.6	12295.6	13026.2	13921.4	14082.0	14098.0	14094.0	14009.7
10898.7	27.5°	11043.2	11139.5	11878.2	12323.7	13359.4	13969.6	13945.5	13829.1	13716.7
10132.0	30°	10356.8	10794.3	11127.5	11838.0	12632.8	13624.3	13624.3	13536.0	13419.6
9859.0	32.5°	10007.5	10573.5	10882.6	11139.5	11817.9	13239.0	13399.5	13307.2	13214.9
9646.2	35°	9822.9	9907.2	10629.7	10862.5	11436.6	12496.3	13146.7	13054.3	12986.1
9080.2	37.5°	9417.4	9614.1	9951.3	10573.5	10750.1	11890.2	12809.5	12761.3	12681.0
8345.6	40°	8514.2	9040.1	9557.9	10148.0	10332.7	11111.4	12400.0	12420.1	12311.7
7562.8	42.5°	7980.3	8337.6	9148.5	9545.9	10043.6	10609.6	12002.6	12034.7	11958.4
7165.4	45°	7354.1	7751.5	8321.5	9044.1	9722.5	9919.2	11300.1	11637.3	11573.1
6374.6	47.5°	6780.1	7101.2	7799.7	8530.3	9280.9	9252.8	10493.2	11127.5	11039.2
5768.5	50°	5965.2	6527.2	6856.3	7526.7	8646.7	8723.0	9634.2	10529.4	10457.1
4901.4	52.5°	5029.8	5736.4	6366.6	6980.8	8004.4	8185.0	8835.4	9919.2	9871.0
3745.3	55°	4395.6	4909.4	5619.9	6113.7	7225.6	7707.4	8237.2	9337.1	9313.0
3078.9	57.5°	3127.1	4118.6	4704.7	5395.1	5981.2	6852.3	7245.7	8152.9	7928.1
1706.1	60°	2119.5	2585.2	3299.7	4042.3	4435.7	5306.8	5672.1	6398.7	6338.5
1019.6	62.5°	1120.0	1549.5	2059.3	2432.6	2717.6	3564.6	3717.2	4500.0	4479.9
409.5	65°	493.8	654.3	1116.0	1308.6	1601.7	1995.1	2127.5	2408.5	2340.3
200.7	67.5°	256.9	389.4	630.2	774.7	975.5	1124.0	1232.4	1320.7	1376.9
132.5	70°	156.6	285.0	389.4	537.9	670.4	790.8	875.1	995.5	1067.8
68.2	72.5°	116.4	180.6	269.0	413.5	485.7	626.2	710.5	798.8	863.1
56.2	75°	64.2	120.4	216.8	325.2	389.4	509.8	586.1	646.3	666.4
32.1	77.5°	40.1	92.3	180.6	252.9	305.1	413.5	393.4	449.6	497.8
24.1	80°	28.1	68.2	140.5	208.7	212.8	264.9	313.1	361.3	393.4
16.1	82.5°	20.1	56.2	104.4	160.6	140.5	204.7	244.9	281.0	204.7
12.0	85°	16.1	40.1	52.2	96.3	80.3	144.5	124.4	120.4	80.3
8.0	87.5°	12.0	20.1	36.1	44.2	32.1	32.1	40.1	48.2	40.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11785.8
11492.8
11573.1
11641.3
11741.7
11946.4
12291.6
12745.2
13243.0
13660.5
13881.3
13628.4
13375.5
13138.6
12889.7
12600.7
12287.6
11950.4
11581.1
11103.4
10469.2
9903.1
9341.1
7904.0
6342.5
4483.9
2312.2
1376.9
1071.8
875.1
654.3
505.8
397.4
148.5
80.3
40.1
0.0

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