

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: P638518

Luminaire Tested: **IFLD-S-SA6C-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638518
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22512.6 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

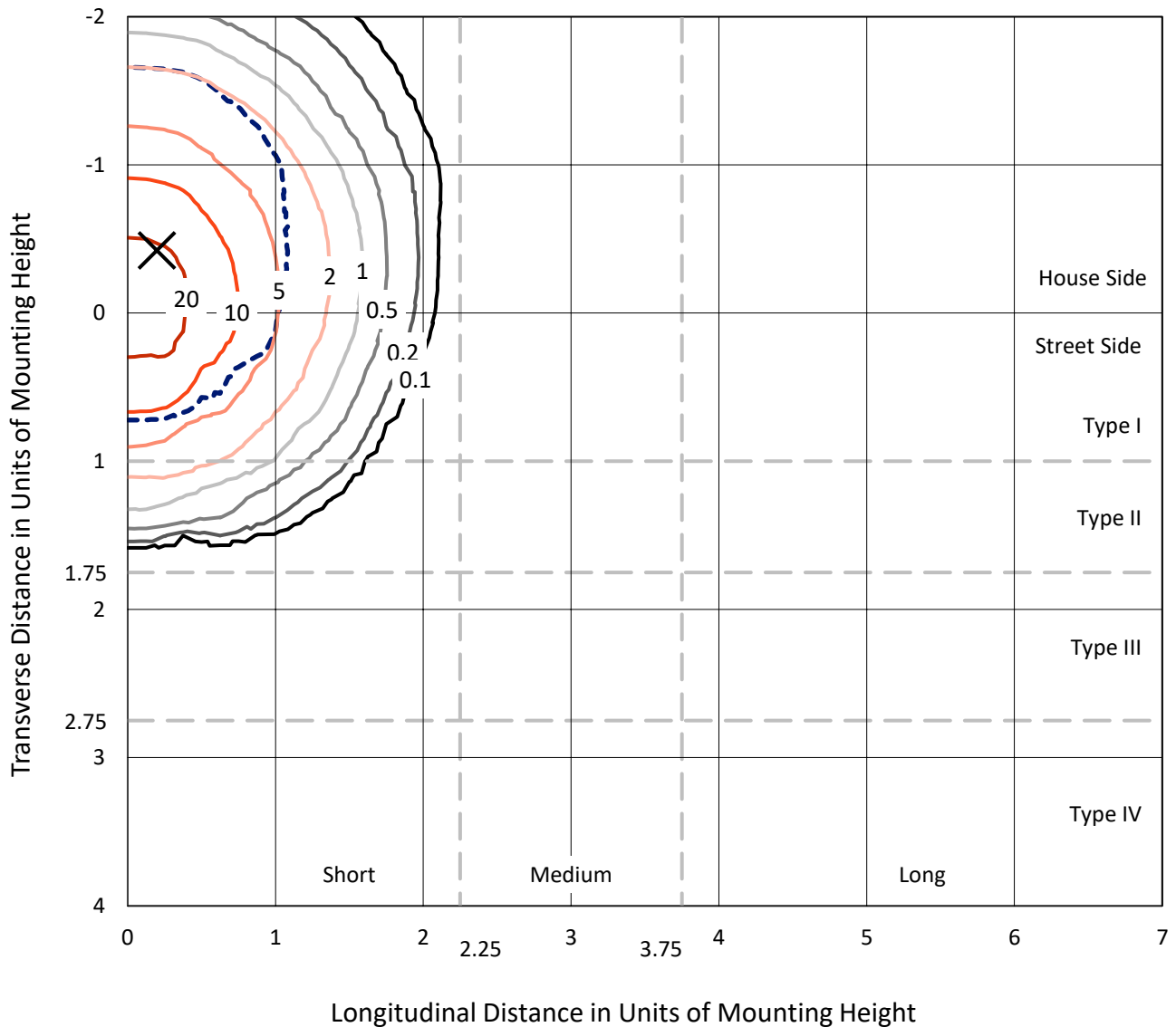
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

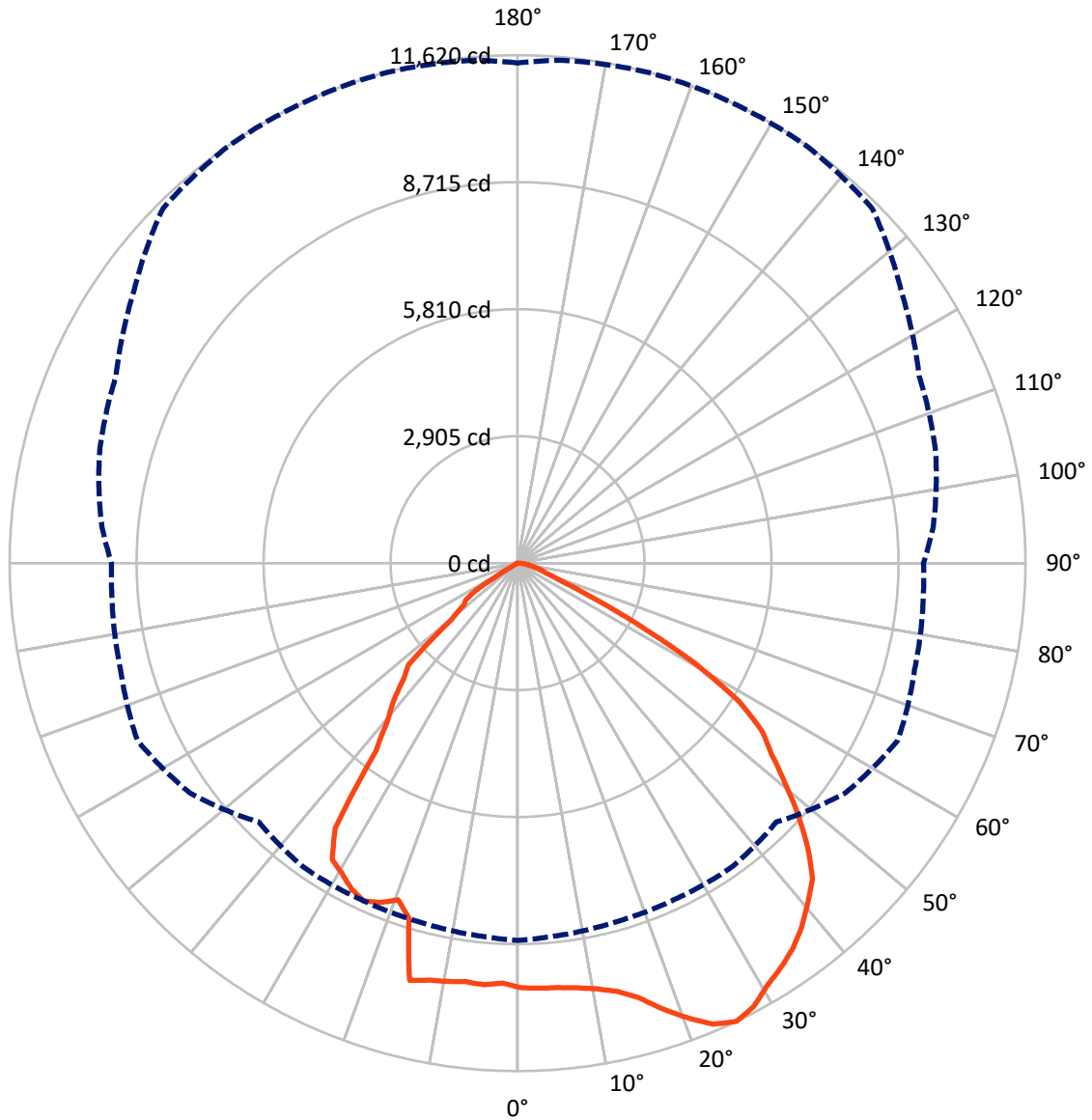
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.3 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	13937.6	0.0	13937.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8575.0	0.0	8575.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	22512.6	0.0	22512.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.9	4.1
10°-20°	2845.5	12.6
20°-30°	4498.6	20.0
30°-40°	5081.6	22.6
40°-50°	4759.0	21.1
50°-60°	3281.0	14.6
60°-70°	881.5	3.9
70°-80°	183.7	0.8
80°-90°	49.7	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°	22512.6	100.0
0°-180°	22512.6	100.0



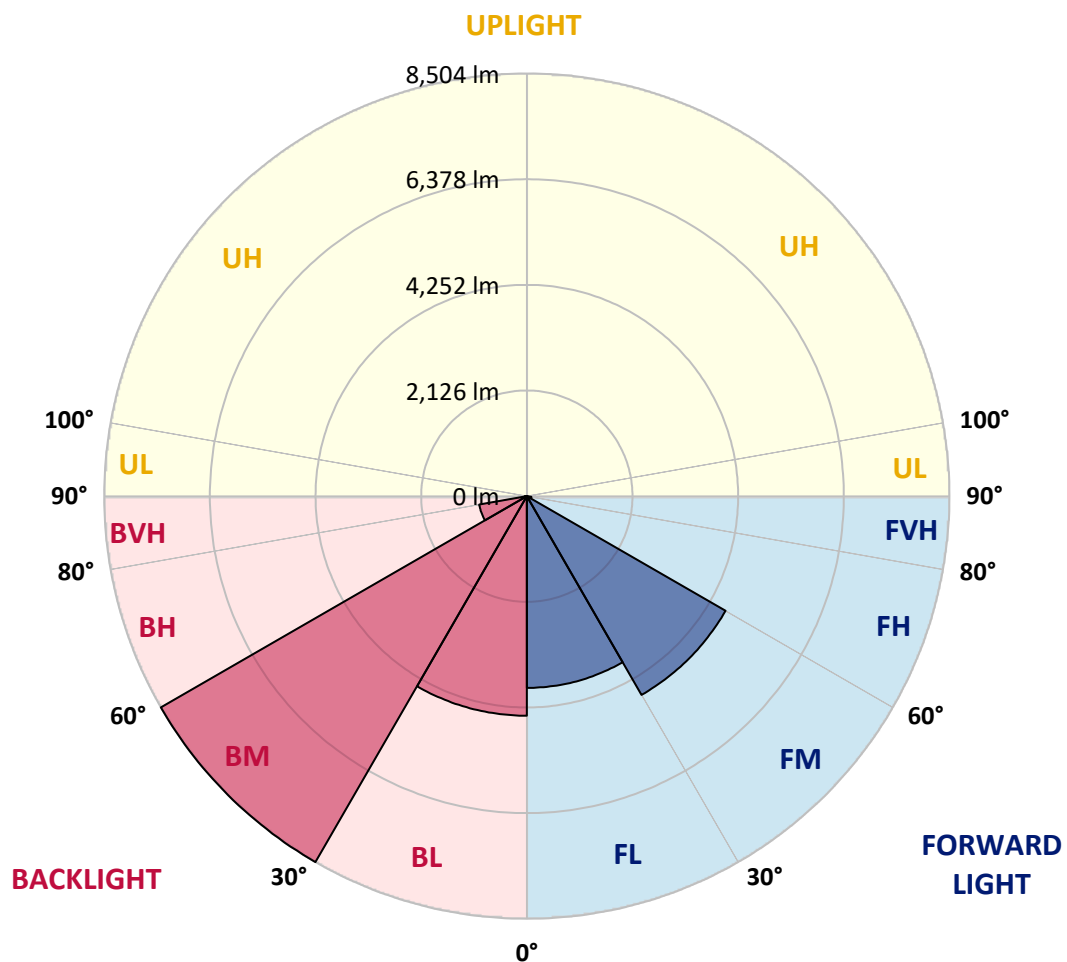
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3857.9	17.1			
FM (30°-60°)	4617.8	20.5			
FH (60°-80°)	92.5	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	4418.1	19.6	B4/5000		
BM (30°-60°)	8503.8	37.8	B5		
BH (60°-80°)	972.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	43.0	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8
2.5°	9756.8	9693.9	9634.4	9614.5	9697.2	9786.6	9730.3	9733.6	9713.8	9750.2
5°	9829.6	9743.6	9703.9	9674.1	9687.3	9780.0	9700.5	9730.3	9697.2	9740.3
7.5°	9803.1	9743.6	9703.9	9647.6	9690.6	9799.8	9723.7	9727.0	9710.5	9750.2
10°	9786.6	9743.6	9693.9	9700.5	9750.2	9842.8	9783.3	9816.3	9793.2	9816.3
12.5°	9826.3	9780.0	9753.5	9753.5	9796.5	9902.4	9872.6	9902.4	9892.4	9912.3
15°	9452.4	9495.4	9746.9	9859.4	9945.4	10051.3	10038.0	10067.8	10074.4	10104.2
17.5°	7973.5	7930.5	7910.6	8489.6	10028.1	10355.6	10345.7	10342.4	10309.3	10286.2
20°	8168.7	8152.2	8129.0	8172.0	8344.1	10514.4	10580.6	10173.7	10054.6	10044.6
22.5°	8479.7	8453.2	8367.2	8370.5	8423.5	9141.4	10253.1	9882.5	9842.8	9819.7
25°	8631.9	8579.0	8509.5	8489.6	8506.2	8373.8	9158.0	9598.0	9402.8	9313.5
27.5°	8363.9	8367.2	8311.0	8363.9	8301.0	7705.5	7371.4	9042.2	9035.5	8995.8
30°	8162.1	8152.2	8086.0	8152.2	7718.8	7053.7	6911.5	8433.4	8363.9	8311.0
32.5°	7543.4	7550.0	7741.9	8000.0	7288.6	6762.6	6332.5	7533.5	8191.9	8162.1
35°	5396.2	5409.4	6091.0	7364.7	6636.9	6183.6	6150.5	6511.1	7920.6	7933.8
37.5°	5194.4	5194.4	5177.8	5386.3	6124.1	5948.7	6014.9	5978.5	7255.6	7288.6
40°	5048.8	5019.0	4995.8	4668.3	4258.1	5783.3	5829.6	5664.2	6858.5	6865.2
42.5°	4873.4	4840.3	4847.0	4241.5	3811.4	5373.0	5244.0	5022.3	6196.8	6203.5
45°	4552.5	4608.8	4648.5	3712.1	3679.1	3837.9	4837.0	4698.1	5750.2	5872.6
47.5°	2316.0	2365.6	3629.4	3414.4	3490.5	3411.1	4086.0	4089.3	4784.1	5191.1
50°	2100.9	2087.7	2091.0	1991.7	3222.5	2759.3	2954.5	3748.5	3831.3	4413.6
52.5°	1958.6	1955.3	1753.5	1558.3	2024.8	2428.4	2143.9	2713.0	2848.6	3738.6
55°	1449.1	1555.0	1383.0	1465.7	1267.2	1945.4	1935.5	2448.3	2494.6	2997.5
57.5°	13.2	16.5	39.7	1115.0	876.8	972.7	1336.6	1670.8	1753.5	2335.8
60°	3.3	6.6	16.5	33.1	569.1	598.8	893.3	966.1	1088.5	1392.9
62.5°	0.0	0.0	6.6	16.5	29.8	244.8	284.5	311.0	479.7	711.3
65°	0.0	0.0	3.3	9.9	16.5	39.7	69.5	145.6	208.4	258.1
67.5°	0.0	0.0	3.3	6.6	13.2	19.9	39.7	56.2	89.3	152.2
70°	0.0	0.0	3.3	6.6	9.9	16.5	26.5	39.7	52.9	76.1
72.5°	0.0	0.0	3.3	6.6	6.6	19.9	19.9	29.8	39.7	49.6
75°	0.0	0.0	3.3	3.3	6.6	13.2	19.9	23.2	26.5	39.7
77.5°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	26.5	23.2	23.2
80°	0.0	0.0	3.3	9.9	9.9	16.5	19.9	26.5	16.5	16.5
82.5°	0.0	0.0	3.3	13.2	9.9	33.1	33.1	36.4	13.2	13.2
85°	0.0	0.0	9.9	6.6	19.9	33.1	29.8	19.9	16.5	9.9
87.5°	0.0	0.0	3.3	3.3	6.6	9.9	23.2	19.9	6.6	6.6
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°
9713.8	0°	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8	9713.8
9654.2	2.5°	9786.6	9743.6	9832.9	9823.0	9780.0	9760.1	9736.9	9717.1	9571.5
9660.8	5°	9789.9	9723.7	9832.9	9813.0	9806.4	9773.3	9753.5	9783.3	9650.9
9687.3	7.5°	9789.9	9723.7	9842.8	9849.4	9839.5	9813.0	9809.7	9829.6	9720.4
9733.6	10°	9856.0	9829.6	9928.8	9938.8	9925.5	9918.9	9902.4	9889.1	9773.3
9892.4	12.5°	9995.0	9942.1	10054.6	10084.3	10074.4	10091.0	10051.3	10071.1	9952.0
10054.6	15°	10163.7	10167.0	10253.1	10319.2	10312.6	10365.6	10306.0	10358.9	10272.9
10239.8	17.5°	10421.8	10458.2	10580.6	10679.9	10716.3	10756.0	10716.3	10732.8	10610.4
10034.7	20°	10150.5	10286.2	10875.1	11057.0	11133.1	11169.5	11103.4	11123.2	11000.8
9783.3	22.5°	9905.7	10081.0	10603.8	11172.8	11407.7	11480.5	11457.4	11454.1	11407.7
9287.0	25°	9545.0	9899.1	10134.0	10736.1	11473.9	11606.3	11619.5	11616.2	11546.7
8982.6	27.5°	9101.7	9181.1	9789.9	10157.1	11010.7	11513.6	11493.8	11397.8	11305.2
8350.7	30°	8536.0	8896.6	9171.2	9756.8	10411.9	11229.1	11229.1	11156.3	11060.3
8125.7	32.5°	8248.1	8714.6	8969.4	9181.1	9740.3	10911.5	11043.8	10967.7	10891.6
7950.3	35°	8095.9	8165.4	8760.9	8952.8	9425.9	10299.4	10835.4	10759.3	10703.0
7483.8	37.5°	7761.8	7923.9	8201.8	8714.6	8860.2	9799.8	10557.5	10517.8	10451.6
6878.4	40°	7017.3	7450.8	7877.6	8363.9	8516.1	9158.0	10220.0	10236.5	10147.2
6233.2	42.5°	6577.3	6871.8	7540.1	7867.6	8277.9	8744.4	9892.4	9918.9	9856.0
5905.7	45°	6061.2	6388.7	6858.5	7454.1	8013.2	8175.3	9313.5	9591.4	9538.4
5253.9	47.5°	5588.1	5852.8	6428.4	7030.6	7649.3	7626.1	8648.4	9171.2	9098.4
4754.3	50°	4916.4	5379.6	5650.9	6203.5	7126.5	7189.4	7940.4	8678.2	8618.7
4039.7	52.5°	4145.6	4727.9	5247.3	5753.5	6597.2	6746.1	7282.0	8175.3	8135.6
3086.8	55°	3622.8	4046.3	4631.9	5038.9	5955.3	6352.3	6789.1	7695.6	7675.7
2537.6	57.5°	2577.3	3394.5	3877.6	4446.6	4929.7	5647.6	5971.9	6719.6	6534.3
1406.1	60°	1746.9	2130.7	2719.6	3331.7	3655.9	4373.8	4674.9	5273.8	5224.1
840.4	62.5°	923.1	1277.1	1697.3	2005.0	2239.9	2938.0	3063.7	3708.8	3692.3
337.5	65°	406.9	539.3	919.8	1078.6	1320.1	1644.3	1753.5	1985.1	1928.9
165.4	67.5°	211.7	320.9	519.4	638.5	804.0	926.4	1015.7	1088.5	1134.8
109.2	70°	129.0	234.9	320.9	443.3	552.5	651.8	721.3	820.5	880.1
56.2	72.5°	95.9	148.9	221.7	340.8	400.3	516.1	585.6	658.4	711.3
46.3	75°	52.9	99.3	178.7	268.0	320.9	420.2	483.0	532.7	549.2
26.5	77.5°	33.1	76.1	148.9	208.4	251.4	340.8	324.2	370.6	410.3
19.9	80°	23.2	56.2	115.8	172.0	175.4	218.4	258.1	297.8	324.2
13.2	82.5°	16.5	46.3	86.0	132.3	115.8	168.7	201.8	231.6	168.7
9.9	85°	13.2	33.1	43.0	79.4	66.2	119.1	102.6	99.3	66.2
6.6	87.5°	9.9	16.5	29.8	36.4	26.5	26.5	33.1	39.7	33.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9713.8
9472.3
9538.4
9594.7
9677.4
9846.1
10130.7
10504.5
10914.8
11258.9
11440.8
11232.4
11024.0
10828.8
10623.6
10385.4
10127.3
9849.4
9545.0
9151.3
8628.6
8162.1
7698.9
6514.5
5227.4
3695.6
1905.7
1134.8
883.4
721.3
539.3
416.9
327.5
122.4
66.2
33.1
0.0

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