

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: P638104

Luminaire Tested: **IFLD-S-SA2E-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638104
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12677.2 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

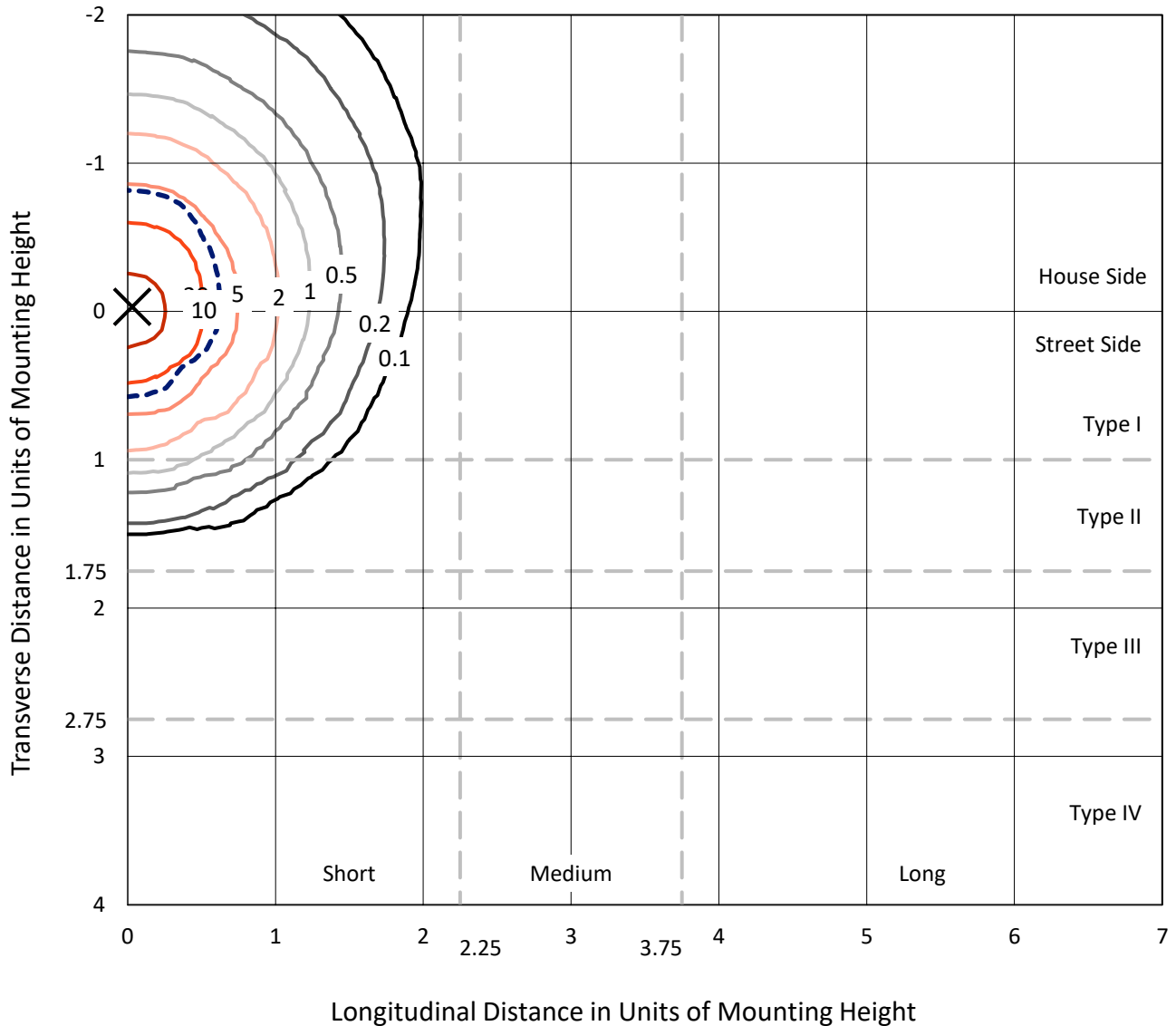
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

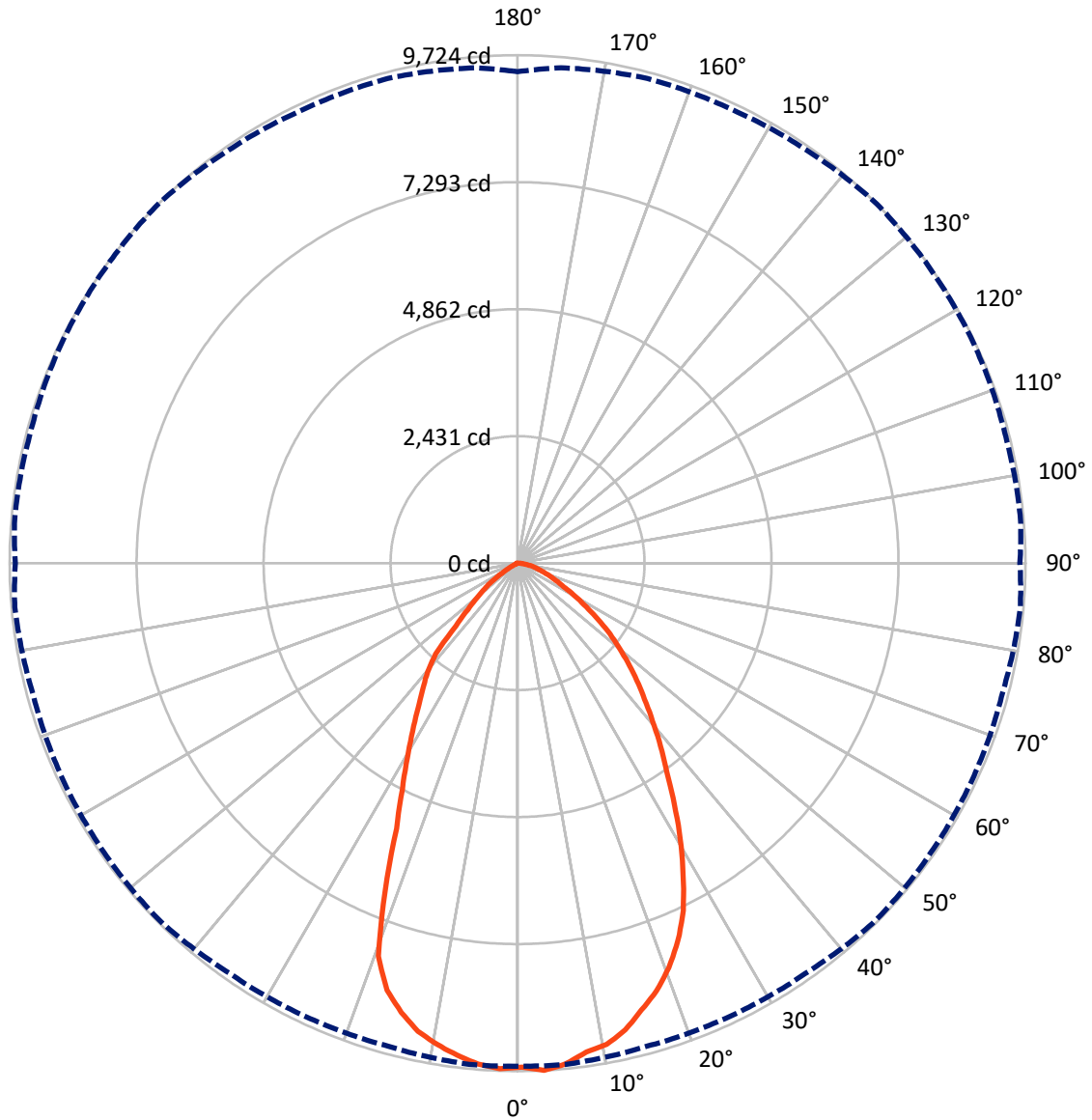
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.1 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	7508.1	0.0	7508.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5169.1	0.0	5169.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	12677.2	0.0	12677.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.8	7.1
10°-20°	2426.2	19.1
20°-30°	2958.9	23.3
30°-40°	2701.4	21.3
40°-50°	1952.2	15.4
50°-60°	1065.9	8.4
60°-70°	440.7	3.5
70°-80°	178.5	1.4
80°-90°	48.6	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°	12677.2	100.0
0°-180°	12677.2	100.0



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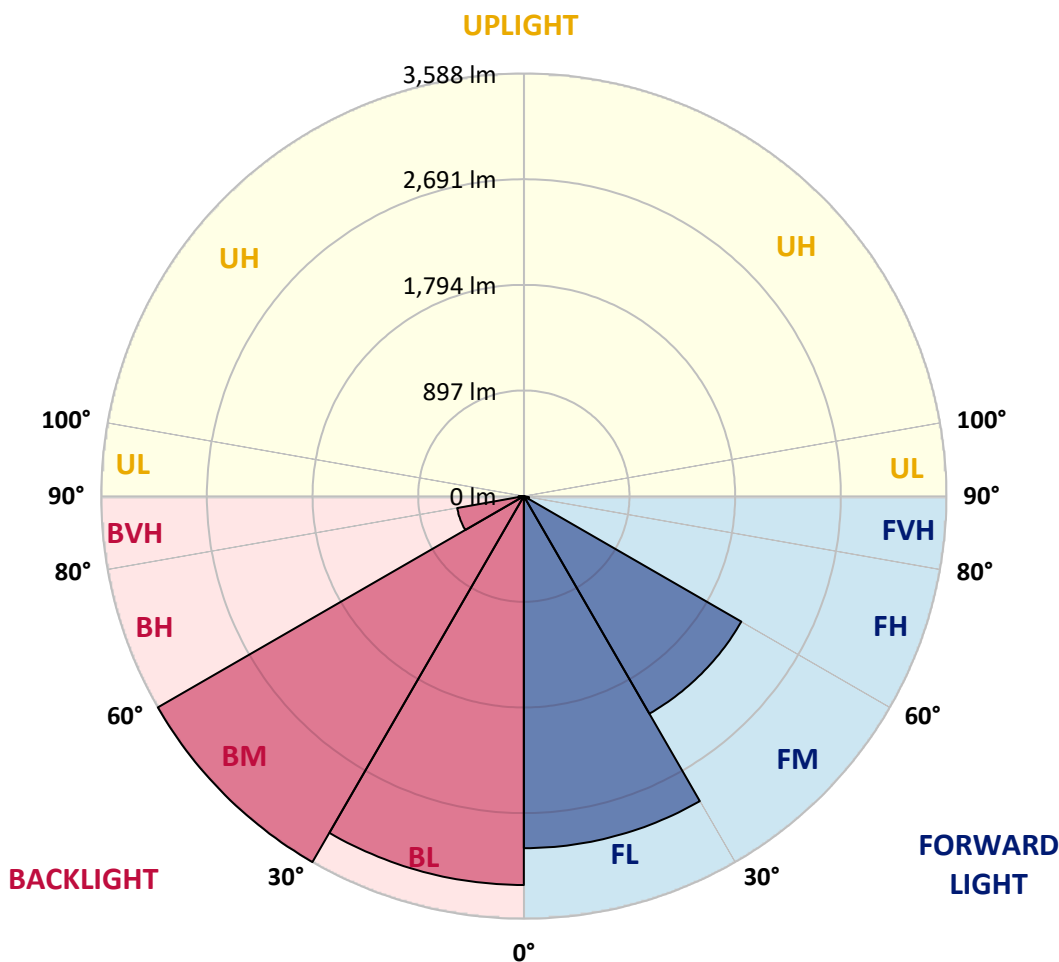
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.5	23.6			
FM (30°-60°)	2132.1	16.8			
FH (60°-80°)	44.7	0.4			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	3301.3	26.0	B4/5000		
BM (30°-60°)	3587.5	28.3	B3/5000		
BH (60°-80°)	574.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3
2.5°	9629.4	9641.9	9574.1	9581.2	9593.7	9684.8	9661.5	9640.1	9609.8	9661.5
5°	9616.9	9624.1	9552.7	9527.7	9538.4	9620.5	9545.5	9545.5	9538.4	9529.4
7.5°	9520.5	9524.1	9468.7	9424.1	9452.7	9490.2	9434.8	9461.6	9422.3	9452.7
10°	9375.9	9352.7	9286.7	9274.2	9306.3	9342.0	9304.5	9329.5	9293.8	9317.0
12.5°	9163.5	9127.8	9074.2	9058.1	9113.5	9161.7	9131.3	9117.1	9070.6	9127.8
15°	8344.1	8317.3	8438.7	8651.1	8842.1	8883.2	8851.1	8865.3	8768.9	8785.0
17.5°	6867.7	6817.7	6948.0	7451.5	8169.1	8547.6	8519.0	8426.2	8283.4	8315.5
20°	6241.1	6226.8	6212.5	6332.1	6833.8	7981.7	8020.9	7785.3	7581.8	7537.2
22.5°	5887.6	5882.3	5868.0	5894.8	6026.9	6764.2	7214.0	6996.2	6860.6	6848.1
25°	5564.5	5555.6	5512.7	5546.6	5546.6	5589.5	6166.1	6298.2	6178.6	6164.3
27.5°	5236.0	5219.9	5212.8	5228.9	5146.8	4857.6	5003.9	5648.4	5585.9	5589.5
30°	4880.8	4875.4	4855.8	4889.7	4636.2	4277.4	4184.5	5059.3	5071.8	5068.2
32.5°	4352.3	4375.5	4464.8	4502.3	4084.6	3788.2	3632.9	4377.3	4632.6	4627.3
35°	3161.6	3161.6	3452.6	3993.5	3579.3	3356.2	3272.3	3711.4	4198.8	4216.7
37.5°	2599.3	2608.2	2665.3	2911.7	3088.4	3009.9	2984.9	3124.1	3641.8	3670.4
40°	2338.6	2338.6	2338.6	2236.9	2231.5	2711.7	2697.5	2652.8	3145.5	3208.0
42.5°	2101.2	2106.5	2110.1	1853.0	1710.2	2344.0	2311.8	2244.0	2701.0	2774.2
45°	1856.6	1865.5	1876.3	1549.6	1487.1	1687.0	1956.6	1881.6	2261.9	2356.5
47.5°	1133.6	1147.9	1390.7	1313.9	1321.1	1301.4	1596.0	1583.5	1854.8	1988.7
50°	765.9	771.2	794.4	833.7	1133.6	1022.9	1130.0	1310.3	1408.5	1612.0
52.5°	642.7	651.6	594.5	540.9	744.4	799.8	789.1	972.9	1012.2	1263.9
55°	451.7	480.2	453.4	448.1	423.1	621.3	598.0	748.0	773.0	960.4
57.5°	46.4	53.6	92.8	333.8	276.7	351.7	426.7	548.1	573.1	708.7
60°	3.6	3.6	8.9	46.4	201.7	210.7	294.6	337.4	385.6	494.5
62.5°	0.0	1.8	3.6	7.1	32.1	112.5	148.2	176.7	232.1	319.6
65°	0.0	0.0	1.8	5.4	7.1	42.8	57.1	92.8	126.7	198.2
67.5°	0.0	0.0	1.8	3.6	5.4	10.7	19.6	33.9	67.8	112.5
70°	0.0	0.0	1.8	3.6	5.4	8.9	14.3	21.4	30.3	60.7
72.5°	0.0	0.0	1.8	1.8	3.6	8.9	10.7	14.3	21.4	30.3
75°	0.0	0.0	1.8	1.8	5.4	10.7	8.9	10.7	14.3	19.6
77.5°	0.0	0.0	1.8	3.6	5.4	10.7	8.9	10.7	10.7	12.5
80°	0.0	0.0	1.8	3.6	7.1	12.5	10.7	10.7	8.9	8.9
82.5°	0.0	0.0	1.8	5.4	7.1	16.1	16.1	14.3	7.1	5.4
85°	0.0	0.0	3.6	7.1	10.7	17.9	17.9	14.3	5.4	3.6
87.5°	0.0	0.0	3.6	5.4	8.9	12.5	17.9	14.3	5.4	1.8
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°
9647.3	0°	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3	9647.3
9616.9	2.5°	9665.1	9654.4	9690.1	9704.4	9724.0	9649.1	9602.6	9604.4	9518.7
9508.0	5°	9565.1	9566.9	9613.3	9609.8	9629.4	9588.4	9570.5	9540.2	9465.2
9370.6	7.5°	9438.4	9422.3	9467.0	9500.9	9450.9	9479.5	9438.4	9452.7	9408.0
9249.2	10°	9340.2	9302.7	9343.8	9367.0	9368.8	9340.2	9300.9	9263.4	9247.4
9059.9	12.5°	9122.4	9074.2	9143.8	9176.0	9170.6	9115.3	9070.6	9079.6	9027.8
8727.9	15°	8822.5	8824.3	8874.3	8904.6	8876.1	8863.6	8867.1	8845.7	8801.1
8269.1	17.5°	8363.7	8390.5	8522.6	8595.8	8611.8	8586.9	8574.4	8549.4	8504.7
7537.2	20°	7599.6	7760.3	7995.9	8222.7	8267.3	8260.2	8215.5	8204.8	8179.8
6812.4	22.5°	6928.4	7048.0	7321.1	7674.6	7856.7	7874.6	7821.0	7804.9	7778.2
6164.3	25°	6233.9	6362.5	6608.8	6992.7	7369.3	7446.1	7437.2	7389.0	7360.4
5589.5	27.5°	5648.4	5776.9	6000.1	6346.4	6749.9	6996.2	7019.4	6942.7	6940.9
5077.1	30°	5120.0	5296.7	5466.3	5748.4	6139.3	6508.9	6548.1	6494.6	6499.9
4607.6	32.5°	4705.8	4852.2	4996.8	5186.0	5510.9	5941.2	6094.7	6044.7	6025.1
4216.7	35°	4282.7	4382.7	4530.9	4704.0	4925.4	5352.1	5618.1	5580.6	5560.9
3688.2	37.5°	3800.7	3972.1	4079.2	4273.8	4447.0	4786.1	5161.0	5155.7	5114.6
3238.4	40°	3306.2	3486.5	3649.0	3845.3	3979.2	4248.8	4664.8	4663.0	4668.3
2772.4	42.5°	2858.1	3024.1	3220.5	3434.7	3563.3	3759.6	4206.0	4230.9	4261.3
2388.6	45°	2452.9	2602.8	2784.9	3045.6	3200.9	3313.3	3709.7	3823.9	3822.1
2045.8	47.5°	2088.7	2229.7	2383.3	2636.8	2834.9	2936.7	3265.1	3427.6	3416.9
1678.1	50°	1753.1	1878.0	2038.7	2222.6	2488.6	2577.8	2822.4	3036.6	3020.6
1337.1	52.5°	1410.3	1583.5	1719.2	1887.0	2167.2	2254.7	2444.0	2652.8	2640.3
1003.3	55°	1099.7	1267.5	1431.7	1576.3	1812.0	1942.3	2078.0	2292.2	2288.6
785.5	57.5°	831.9	1015.8	1171.1	1308.6	1496.0	1656.7	1765.6	1960.2	1985.2
537.3	60°	615.9	756.9	924.7	1078.3	1226.4	1392.5	1465.7	1656.7	1667.4
367.8	62.5°	419.5	574.8	739.1	878.3	989.0	1160.4	1226.4	1383.5	1403.2
235.6	65°	291.0	391.0	578.4	678.4	814.1	960.4	1026.5	1151.5	1190.7
135.7	67.5°	192.8	278.5	451.7	542.7	676.6	776.6	860.5	962.2	1005.1
85.7	70°	105.3	205.3	323.1	428.5	544.5	640.9	723.0	805.1	842.6
39.3	72.5°	71.4	137.5	224.9	339.2	439.2	533.8	607.0	667.7	669.5
23.2	75°	35.7	92.8	171.4	262.4	342.8	435.6	501.6	537.3	494.5
14.3	77.5°	21.4	67.8	139.2	210.7	278.5	351.7	389.2	408.8	339.2
10.7	80°	12.5	48.2	108.9	167.8	192.8	258.9	294.6	299.9	226.7
7.1	82.5°	8.9	35.7	85.7	123.2	117.8	182.1	221.4	214.2	144.6
5.4	85°	5.4	25.0	53.6	76.8	71.4	119.6	128.5	132.1	83.9
3.6	87.5°	3.6	14.3	28.6	41.1	33.9	51.8	51.8	62.5	41.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9647.3
9408.0
9447.3
9333.1
9176.0
8983.2
8756.4
8485.1
8122.7
7771.0
7330.1
6937.3
6473.2
6026.9
5534.1
5148.5
4668.3
4245.2
3825.7
3420.5
3034.9
2667.1
2297.6
1974.4
1683.5
1406.7
1181.8
999.7
828.3
653.4
462.4
326.7
212.4
133.9
76.8
35.7
0.0

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