

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: P636754

Luminaire Tested: **IFLD-M-SA4C-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13996.3 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

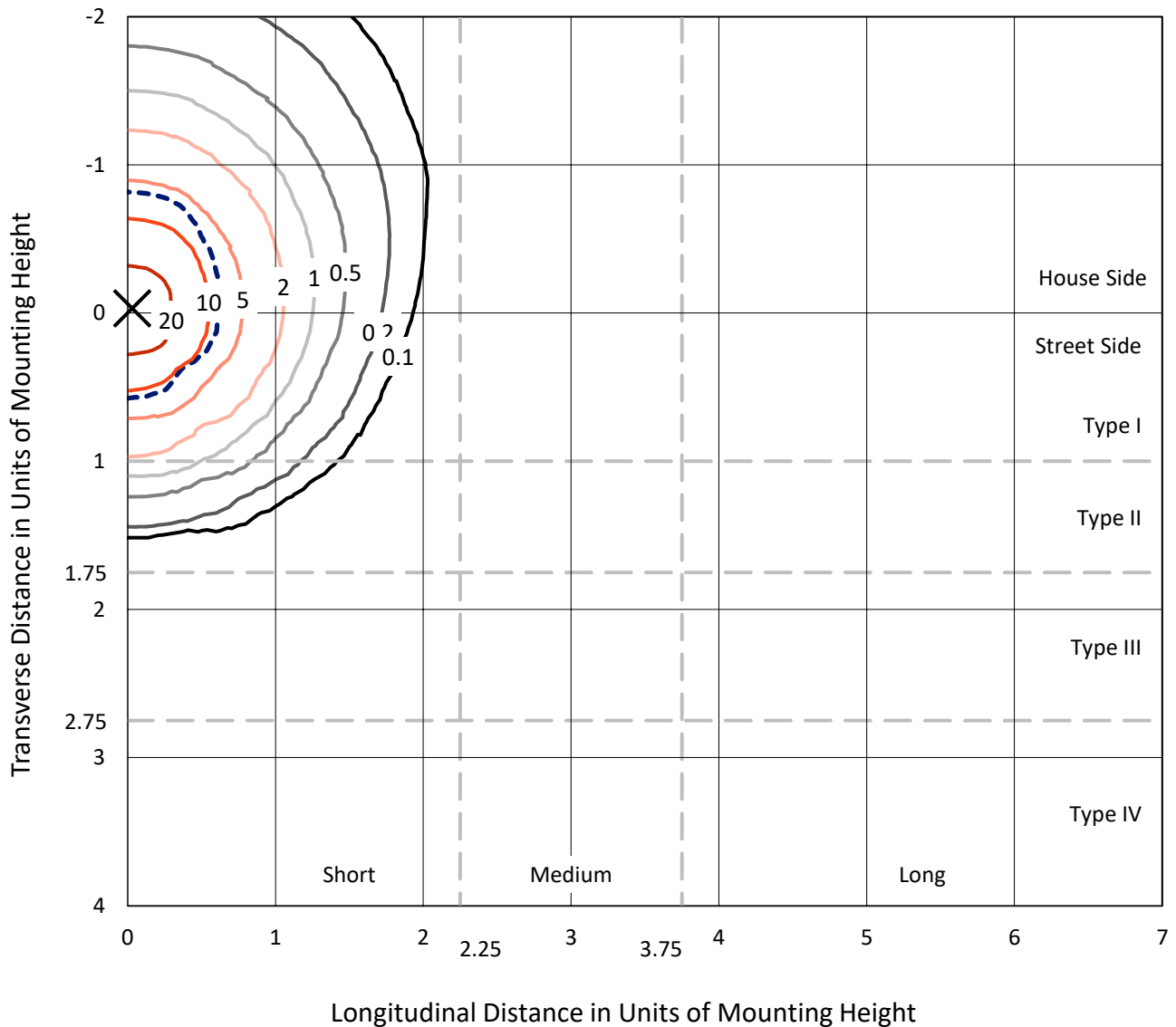
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

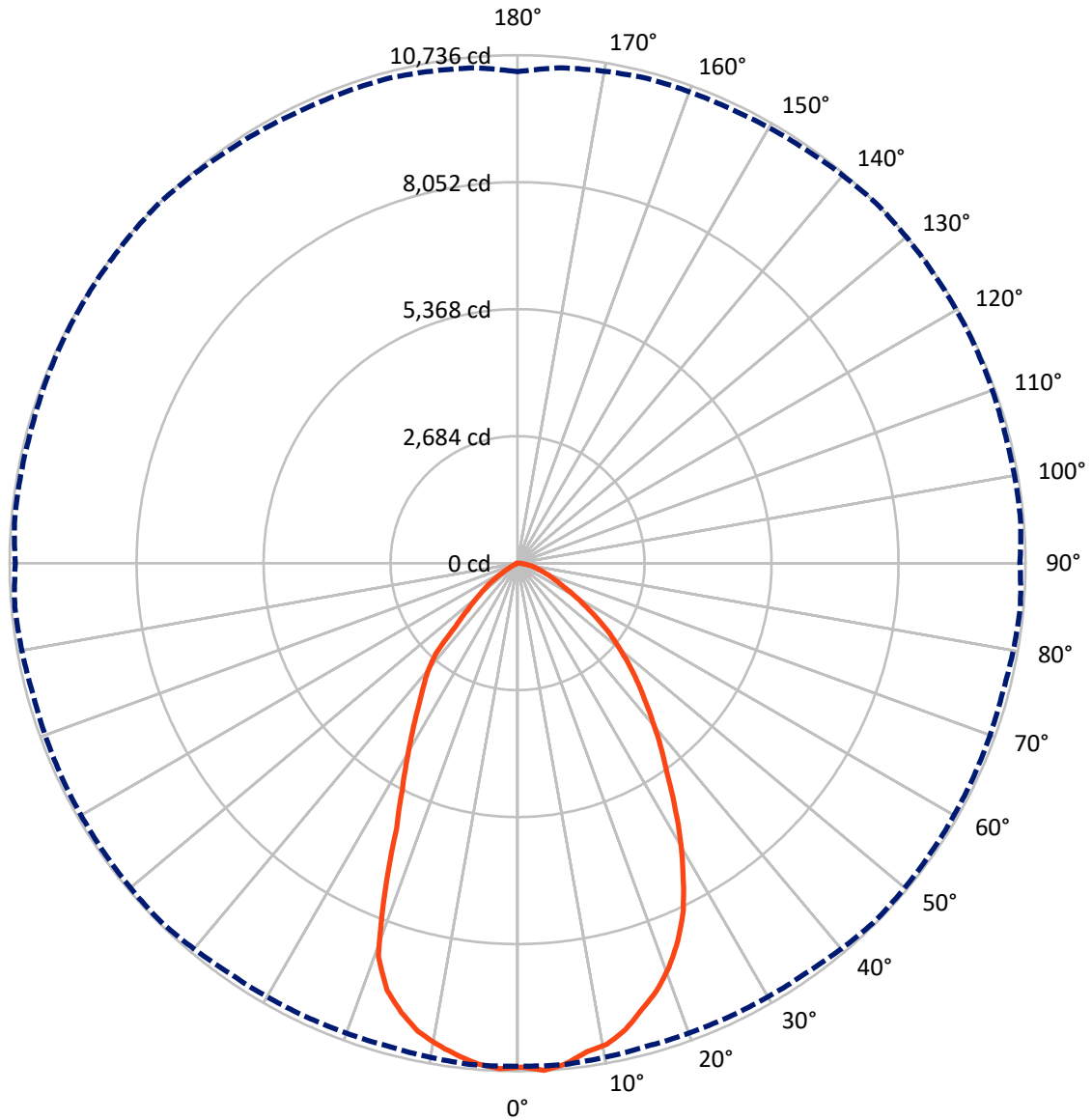
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.6 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	8289.3	0.0	8289.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5707.0	0.0	5707.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	13996.3	0.0	13996.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.9	7.1
10°-20°	2678.6	19.1
20°-30°	3266.7	23.3
30°-40°	2982.5	21.3
40°-50°	2155.4	15.4
50°-60°	1176.9	8.4
60°-70°	486.6	3.5
70°-80°	197.1	1.4
80°-90°	53.6	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°	13996.3	100.0
0°-180°	13996.3	100.0



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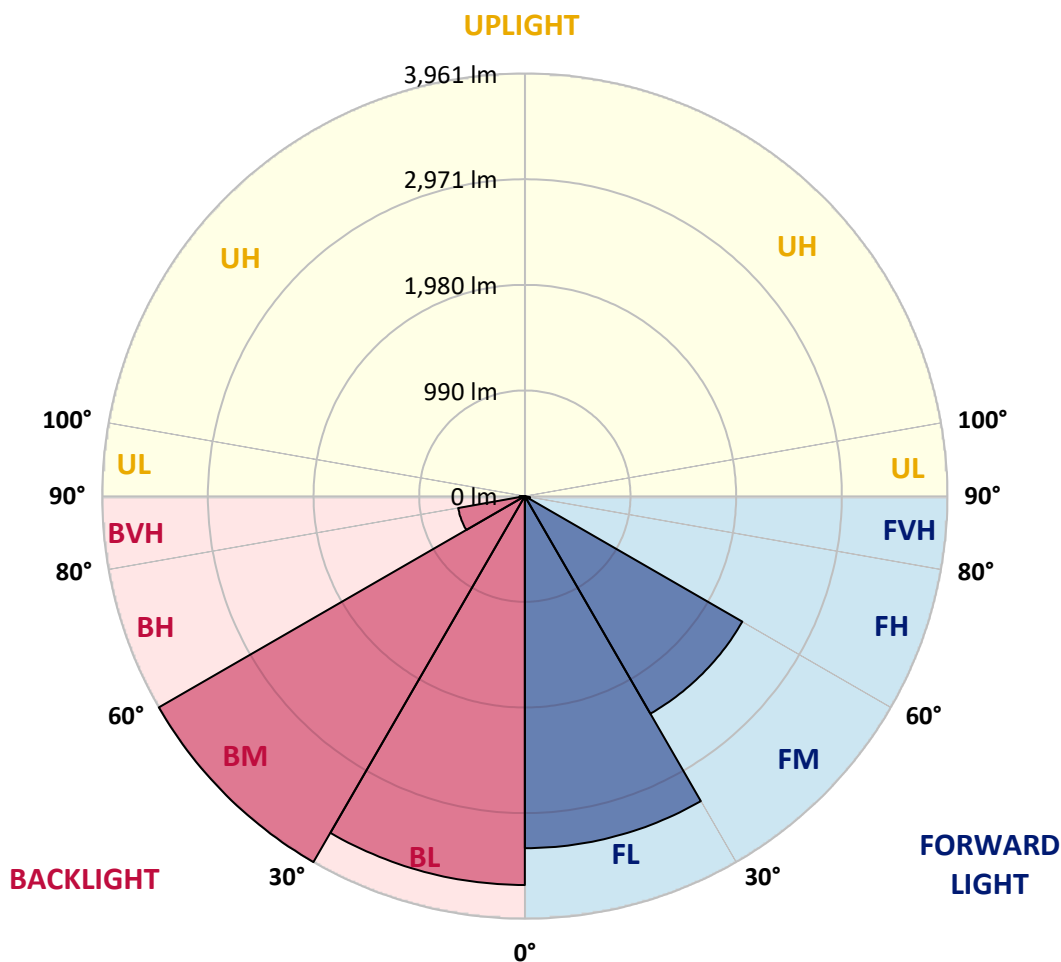
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.4	23.6			
FM (30°-60°)	2353.9	16.8			
FH (60°-80°)	49.3	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	3644.8	26.0	B4/5000		
BM (30°-60°)	3960.8	28.3	B3/5000		
BH (60°-80°)	634.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	49.3	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°	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1
2.5°	10631.4	10645.2	10570.3	10578.2	10592.0	10692.5	10666.9	10643.2	10609.7	10666.9
5°	10617.6	10625.5	10546.7	10519.1	10530.9	10621.6	10538.8	10538.8	10530.9	10521.0
7.5°	10511.2	10515.1	10454.0	10404.8	10436.3	10477.7	10416.6	10446.2	10402.8	10436.3
10°	10351.5	10325.9	10253.0	10239.2	10274.7	10314.1	10272.7	10300.3	10260.9	10286.5
12.5°	10117.0	10077.6	10018.5	10000.7	10061.8	10115.0	10081.5	10065.8	10014.5	10077.6
15°	9212.3	9182.8	9316.8	9551.3	9762.2	9807.6	9772.1	9787.8	9681.4	9699.2
17.5°	7582.3	7527.1	7671.0	8226.8	9019.2	9437.0	9405.5	9303.0	9145.3	9180.8
20°	6890.5	6874.8	6859.0	6991.0	7544.9	8812.2	8855.6	8595.4	8370.7	8321.4
22.5°	6500.3	6494.4	6478.6	6508.1	6654.0	7468.0	7964.7	7724.2	7574.4	7560.6
25°	6143.5	6133.7	6086.4	6123.8	6123.8	6171.1	6807.7	6953.6	6821.5	6805.8
27.5°	5780.9	5763.1	5755.2	5773.0	5682.3	5363.0	5524.6	6236.2	6167.2	6171.1
30°	5388.6	5382.7	5361.0	5398.5	5118.6	4722.4	4620.0	5585.7	5599.5	5595.6
32.5°	4805.2	4830.9	4929.4	4970.8	4509.6	4182.4	4010.9	4832.8	5114.7	5108.8
35°	3490.6	3490.6	3811.9	4409.1	3951.8	3705.4	3612.8	4097.7	4635.7	4655.4
37.5°	2869.7	2879.6	2942.7	3214.7	3409.8	3323.1	3295.5	3449.2	4020.8	4052.3
40°	2582.0	2582.0	2582.0	2469.6	2463.7	2993.9	2978.1	2928.9	3472.9	3541.8
42.5°	2319.8	2325.7	2329.7	2045.9	1888.2	2587.9	2552.4	2477.5	2982.1	3062.9
45°	2049.8	2059.7	2071.5	1710.8	1641.8	1862.6	2160.2	2077.4	2497.2	2601.7
47.5°	1251.6	1267.3	1535.4	1450.6	1458.5	1436.8	1762.0	1748.3	2047.8	2195.7
50°	845.5	851.5	877.1	920.4	1251.6	1129.4	1247.6	1446.7	1555.1	1779.8
52.5°	709.5	719.4	656.3	597.2	821.9	883.0	871.2	1074.2	1117.5	1395.4
55°	498.7	530.2	500.6	494.7	467.1	685.9	660.3	825.8	853.4	1060.4
57.5°	51.2	59.1	102.5	368.6	305.5	388.3	471.1	605.1	632.7	782.5
60°	3.9	3.9	9.9	51.2	222.7	232.6	325.2	372.5	425.7	546.0
62.5°	0.0	2.0	3.9	7.9	35.5	124.2	163.6	195.1	256.2	352.8
65°	0.0	0.0	2.0	5.9	7.9	47.3	63.1	102.5	139.9	218.8
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	21.7	37.4	74.9	124.2
70°	0.0	0.0	2.0	3.9	5.9	9.9	15.8	23.7	33.5	67.0
72.5°	0.0	0.0	2.0	2.0	3.9	9.9	11.8	15.8	23.7	33.5
75°	0.0	0.0	2.0	2.0	5.9	11.8	9.9	11.8	15.8	21.7
77.5°	0.0	0.0	2.0	3.9	5.9	11.8	9.9	11.8	11.8	13.8
80°	0.0	0.0	2.0	3.9	7.9	13.8	11.8	11.8	9.9	9.9
82.5°	0.0	0.0	2.0	5.9	7.9	17.7	17.7	15.8	7.9	5.9
85°	0.0	0.0	3.9	7.9	11.8	19.7	19.7	15.8	5.9	3.9
87.5°	0.0	0.0	3.9	5.9	9.9	13.8	19.7	15.8	5.9	2.0
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°
10651.1	0°	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1	10651.1
10617.6	2.5°	10670.8	10659.0	10698.4	10714.2	10735.9	10653.1	10601.9	10603.8	10509.2
10497.4	5°	10560.5	10562.4	10613.7	10609.7	10631.4	10586.1	10566.4	10532.9	10450.1
10345.6	7.5°	10420.5	10402.8	10452.1	10489.5	10434.3	10465.9	10420.5	10436.3	10387.0
10211.6	10°	10312.1	10270.7	10316.1	10341.7	10343.7	10312.1	10268.8	10227.4	10209.6
10002.7	12.5°	10071.7	10018.5	10095.3	10130.8	10124.9	10063.8	10014.5	10024.4	9967.2
9636.1	15°	9740.5	9742.5	9797.7	9831.2	9799.7	9785.9	9789.8	9766.2	9716.9
9129.5	17.5°	9234.0	9263.6	9409.4	9490.2	9508.0	9480.4	9466.6	9439.0	9389.7
8321.4	20°	8390.4	8567.8	8828.0	9078.3	9127.6	9119.7	9070.4	9058.6	9031.0
7521.2	22.5°	7649.3	7781.4	8083.0	8473.2	8674.2	8694.0	8634.8	8617.1	8587.5
6805.8	25°	6882.6	7024.5	7296.5	7720.3	8136.2	8220.9	8211.1	8157.9	8126.3
6171.1	27.5°	6236.2	6378.1	6624.4	7006.8	7452.2	7724.2	7749.9	7665.1	7663.1
5605.4	30°	5652.7	5847.9	6035.1	6346.5	6778.2	7186.2	7229.5	7170.4	7176.3
5087.1	32.5°	5195.5	5357.1	5516.8	5725.7	6084.4	6559.4	6728.9	6673.7	6652.0
4655.4	35°	4728.4	4838.7	5002.3	5193.5	5437.9	5909.0	6202.6	6161.3	6139.6
4072.0	37.5°	4196.2	4385.4	4503.7	4718.5	4909.7	5284.2	5698.1	5692.2	5646.8
3575.3	40°	3650.2	3849.3	4028.7	4245.5	4393.3	4690.9	5150.2	5148.2	5154.1
3060.9	42.5°	3155.5	3338.8	3555.6	3792.2	3934.1	4150.9	4643.6	4671.2	4704.7
2637.2	45°	2708.1	2873.7	3074.7	3362.5	3534.0	3658.1	4095.7	4221.8	4219.9
2258.7	47.5°	2306.0	2461.7	2631.2	2911.1	3129.9	3242.2	3604.9	3784.3	3772.4
1852.7	50°	1935.5	2073.5	2250.9	2453.9	2747.5	2846.1	3116.1	3352.6	3334.9
1476.3	52.5°	1557.1	1748.3	1898.0	2083.3	2392.8	2489.3	2698.3	2928.9	2915.1
1107.7	55°	1214.1	1399.4	1580.7	1740.4	2000.5	2144.4	2294.2	2530.7	2526.8
867.2	57.5°	918.5	1121.5	1293.0	1444.7	1651.7	1829.1	1949.3	2164.1	2191.7
593.3	60°	680.0	835.7	1021.0	1190.5	1354.1	1537.4	1618.2	1829.1	1840.9
406.0	62.5°	463.2	634.7	816.0	969.7	1091.9	1281.1	1354.1	1527.5	1549.2
260.2	65°	321.3	431.6	638.6	749.0	898.8	1060.4	1133.3	1271.3	1314.6
149.8	67.5°	212.9	307.5	498.7	599.2	747.0	857.4	950.0	1062.4	1109.7
94.6	70°	116.3	226.7	356.7	473.0	601.1	707.6	798.2	888.9	930.3
43.4	72.5°	78.8	151.8	248.3	374.5	484.9	589.3	670.1	737.1	739.1
25.6	75°	39.4	102.5	189.2	289.7	378.4	480.9	553.8	593.3	546.0
15.8	77.5°	23.7	74.9	153.7	232.6	307.5	388.3	429.7	451.4	374.5
11.8	80°	13.8	53.2	120.2	185.3	212.9	285.8	325.2	331.1	250.3
7.9	82.5°	9.9	39.4	94.6	136.0	130.1	201.0	244.4	236.5	159.6
5.9	85°	5.9	27.6	59.1	84.8	78.8	132.1	141.9	145.9	92.6
3.9	87.5°	3.9	15.8	31.5	45.3	37.4	57.2	57.2	69.0	45.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10651.1
10387.0
10430.4
10304.2
10130.8
9917.9
9667.6
9368.0
8967.9
8579.6
8092.8
7659.2
7146.7
6654.0
6110.0
5684.3
5154.1
4687.0
4223.8
3776.4
3350.7
2944.6
2536.6
2179.9
1858.6
1553.1
1304.8
1103.7
914.5
721.4
510.5
360.7
234.5
147.8
84.8
39.4
0.0

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