

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: P638144

Luminaire Tested: **IFLD-M-SA4A-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14010.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

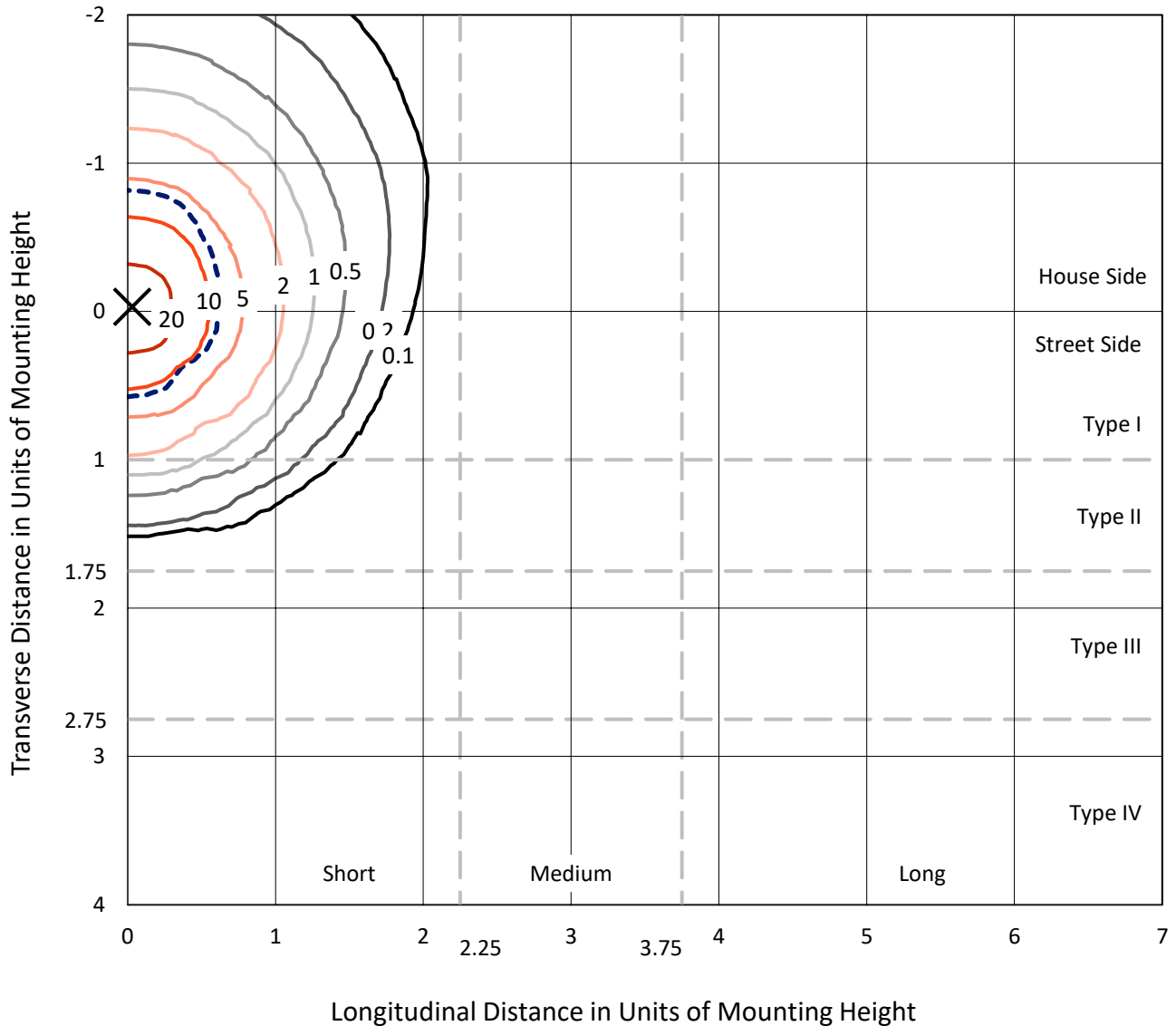
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

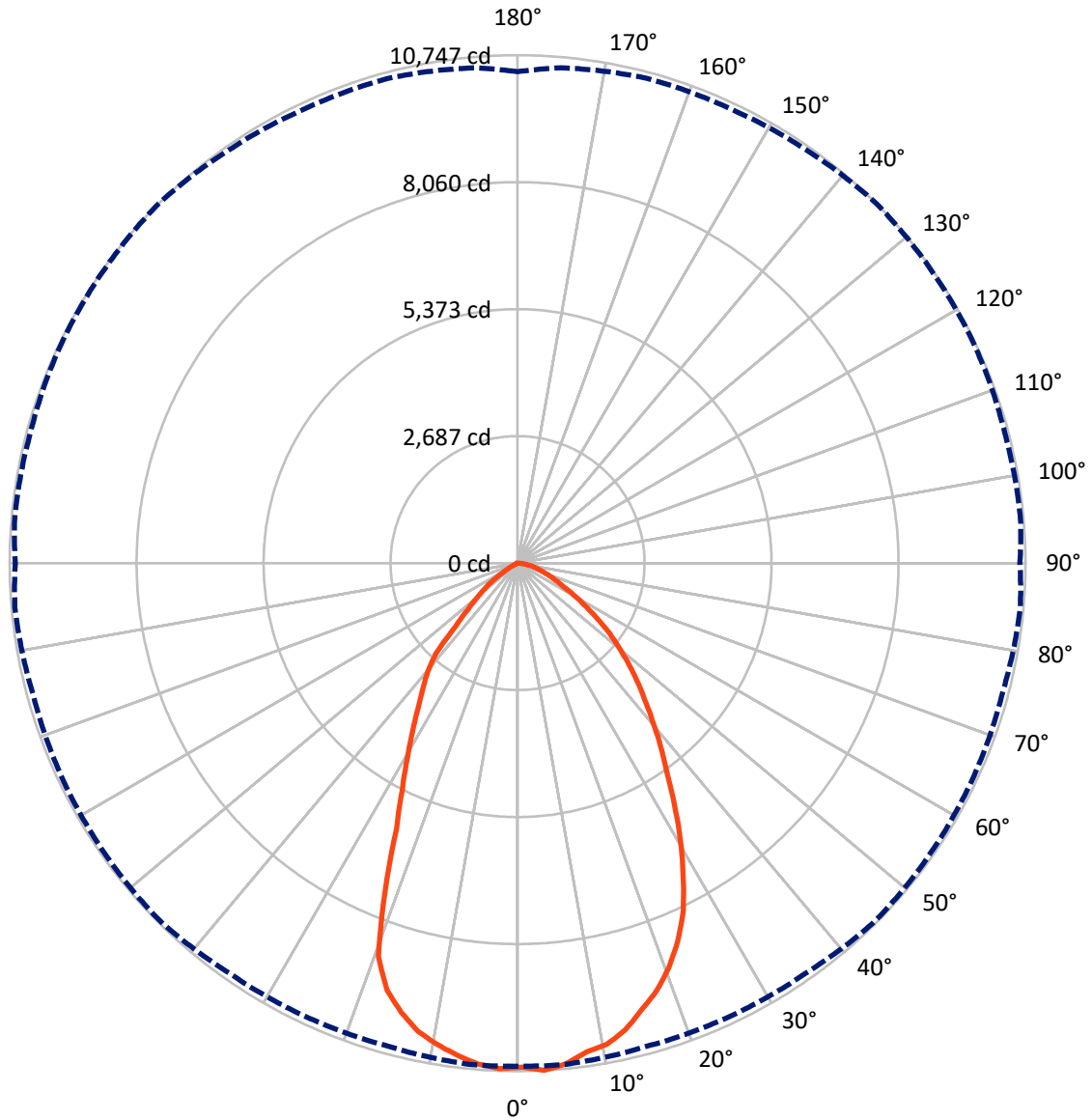
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.7 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	8297.6	0.0	8297.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5712.6	0.0	5712.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	14010.2	0.0	14010.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.9	7.1
10°-20°	2681.3	19.1
20°-30°	3270.0	23.3
30°-40°	2985.5	21.3
40°-50°	2157.5	15.4
50°-60°	1178.0	8.4
60°-70°	487.1	3.5
70°-80°	197.3	1.4
80°-90°	53.7	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°	14010.2	100.0
0°-180°	14010.2	100.0



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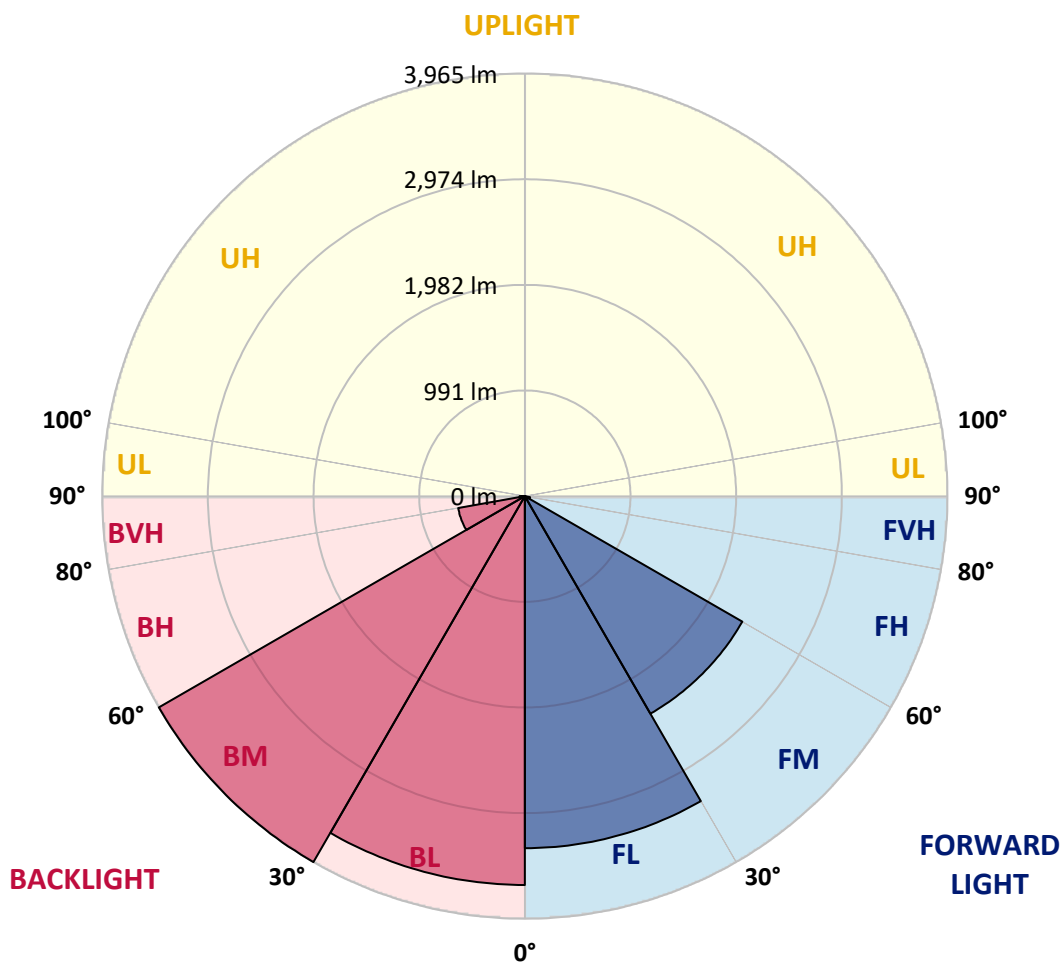
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3302.7	23.6			
FM (30°-60°)	2356.3	16.8			
FH (60°-80°)	49.4	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	3648.5	26.0	B4/5000		
BM (30°-60°)	3964.8	28.3	B3/5000		
BH (60°-80°)	635.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	49.4	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°	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7
2.5°	10642.0	10655.8	10580.8	10588.7	10602.5	10703.2	10677.5	10653.8	10620.3	10677.5
5°	10628.2	10636.1	10557.2	10529.5	10541.4	10632.1	10549.3	10549.3	10541.4	10531.5
7.5°	10521.6	10525.6	10464.4	10415.1	10446.7	10488.1	10426.9	10456.5	10413.1	10446.7
10°	10361.8	10336.2	10263.2	10249.4	10284.9	10324.3	10282.9	10310.5	10271.1	10296.7
12.5°	10127.1	10087.6	10028.4	10010.7	10071.8	10125.1	10091.5	10075.8	10024.5	10087.6
15°	9221.5	9191.9	9326.0	9560.8	9771.9	9817.3	9781.8	9797.6	9691.0	9708.8
17.5°	7589.9	7534.6	7678.6	8235.0	9028.1	9446.4	9414.8	9312.2	9154.4	9189.9
20°	6897.4	6881.6	6865.8	6998.0	7552.4	8821.0	8864.4	8604.0	8379.0	8329.7
22.5°	6506.7	6500.8	6485.0	6514.6	6660.6	7475.4	7972.6	7731.9	7582.0	7568.2
25°	6149.6	6139.8	6092.4	6129.9	6129.9	6177.2	6814.5	6960.5	6828.3	6812.5
27.5°	5786.6	5768.9	5761.0	5778.7	5688.0	5368.3	5530.1	6242.4	6173.3	6177.2
30°	5394.0	5388.1	5366.4	5403.9	5123.7	4727.1	4624.6	5591.3	5605.1	5601.2
32.5°	4810.0	4835.7	4934.3	4975.7	4514.1	4186.6	4014.9	4837.6	5119.8	5113.8
35°	3494.1	3494.1	3815.6	4413.4	3955.7	3709.1	3616.4	4101.7	4640.3	4660.1
37.5°	2872.6	2882.5	2945.6	3217.9	3413.2	3326.4	3298.7	3452.6	4024.8	4056.3
40°	2584.5	2584.5	2584.5	2472.1	2466.2	2996.9	2981.1	2931.8	3476.3	3545.4
42.5°	2322.1	2328.1	2332.0	2047.9	1890.1	2590.5	2554.9	2480.0	2985.0	3065.9
45°	2051.8	2061.7	2073.6	1712.5	1643.5	1864.4	2162.3	2079.5	2499.7	2604.3
47.5°	1252.8	1268.6	1536.9	1452.1	1460.0	1438.3	1763.8	1750.0	2049.9	2197.8
50°	846.4	852.3	878.0	921.4	1252.8	1130.5	1248.9	1448.1	1556.6	1781.6
52.5°	710.3	720.1	657.0	597.8	822.7	883.9	872.0	1075.2	1118.7	1396.8
55°	499.2	530.7	501.1	495.2	467.6	686.6	660.9	826.7	854.3	1061.4
57.5°	51.3	59.2	102.6	368.9	305.8	388.7	471.5	605.7	633.3	783.3
60°	3.9	3.9	9.9	51.3	222.9	232.8	325.5	372.9	426.2	546.5
62.5°	0.0	2.0	3.9	7.9	35.5	124.3	163.8	195.3	256.5	353.2
65°	0.0	0.0	2.0	5.9	7.9	47.4	63.1	102.6	140.1	219.0
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	21.7	37.5	75.0	124.3
70°	0.0	0.0	2.0	3.9	5.9	9.9	15.8	23.7	33.5	67.1
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	17.8	17.8	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°
10661.7	0°	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7	10661.7
10628.2	2.5°	10681.5	10669.6	10709.1	10724.9	10746.6	10663.7	10612.4	10614.4	10519.7
10507.8	5°	10571.0	10572.9	10624.2	10620.3	10642.0	10596.6	10576.9	10543.3	10460.5
10355.9	7.5°	10430.9	10413.1	10462.5	10499.9	10444.7	10476.3	10430.9	10446.7	10397.3
10221.8	10°	10322.4	10280.9	10326.3	10352.0	10353.9	10322.4	10279.0	10237.5	10219.8
10012.6	12.5°	10081.7	10028.4	10105.4	10140.9	10134.9	10073.8	10024.5	10034.3	9977.1
9645.7	15°	9750.2	9752.2	9807.4	9841.0	9809.4	9795.6	9799.5	9775.9	9726.6
9138.6	17.5°	9243.2	9272.8	9418.8	9499.7	9517.4	9489.8	9476.0	9448.4	9399.0
8329.7	20°	8398.8	8576.3	8836.8	9087.3	9136.6	9128.8	9079.4	9067.6	9040.0
7528.7	22.5°	7656.9	7789.1	8091.0	8481.6	8682.9	8702.6	8643.4	8625.7	8596.1
6812.5	25°	6889.5	7031.5	7303.8	7728.0	8144.3	8229.1	8219.2	8166.0	8134.4
6177.2	27.5°	6242.4	6384.4	6631.0	7013.8	7459.7	7731.9	7757.6	7672.7	7670.8
5611.0	30°	5658.4	5853.7	6041.1	6352.8	6784.9	7193.3	7236.7	7177.5	7183.4
5092.1	32.5°	5200.6	5362.4	5522.2	5731.4	6090.4	6565.9	6735.6	6680.3	6658.6
4660.1	35°	4733.1	4843.5	5007.3	5198.7	5443.3	5914.8	6208.8	6167.4	6145.7
4076.1	37.5°	4200.4	4389.8	4508.1	4723.2	4914.6	5289.4	5703.7	5697.8	5652.4
3578.9	40°	3653.9	3853.1	4032.7	4249.7	4397.7	4695.6	5155.3	5153.3	5159.2
3064.0	42.5°	3158.7	3342.1	3559.2	3795.9	3938.0	4155.0	4648.2	4675.8	4709.4
2639.8	45°	2710.8	2876.5	3077.8	3365.8	3537.5	3661.8	4099.8	4226.0	4224.0
2261.0	47.5°	2308.3	2464.2	2633.9	2914.0	3133.0	3245.5	3608.5	3788.0	3776.2
1854.6	50°	1937.4	2075.5	2253.1	2456.3	2750.3	2848.9	3119.2	3356.0	3338.2
1477.7	52.5°	1558.6	1750.0	1899.9	2085.4	2395.1	2491.8	2700.9	2931.8	2918.0
1108.8	55°	1215.3	1400.8	1582.3	1742.1	2002.5	2146.5	2296.5	2533.2	2529.3
868.1	57.5°	919.4	1122.6	1294.2	1446.2	1653.3	1830.9	1951.2	2166.3	2193.9
593.9	60°	680.7	836.5	1022.0	1191.7	1355.4	1538.9	1619.8	1830.9	1842.7
406.4	62.5°	463.6	635.3	816.8	970.7	1093.0	1282.4	1355.4	1529.0	1550.7
260.4	65°	321.6	432.1	639.2	749.7	899.7	1061.4	1134.4	1272.5	1315.9
149.9	67.5°	213.1	307.8	499.2	599.8	747.7	858.2	951.0	1063.4	1110.8
94.7	70°	116.4	226.9	357.1	473.5	601.7	708.3	799.0	889.8	931.2
43.4	72.5°	78.9	151.9	248.6	374.9	485.3	589.9	670.8	737.9	739.8
25.6	75°	39.5	102.6	189.4	290.0	378.8	481.4	554.4	593.9	546.5
15.8	77.5°	23.7	75.0	153.9	232.8	307.8	388.7	430.1	451.8	374.9
11.8	80°	13.8	53.3	120.3	185.5	213.1	286.1	325.5	331.5	250.6
7.9	82.5°	9.9	39.5	94.7	136.1	130.2	201.2	244.6	236.8	159.8
5.9	85°	5.9	27.6	59.2	84.8	78.9	132.2	142.1	146.0	92.7
3.9	87.5°	3.9	15.8	31.6	45.4	37.5	57.2	57.2	69.1	45.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10661.7
10397.3
10440.8
10314.5
10140.9
9927.8
9677.2
9377.3
8976.8
8588.2
8100.9
7666.8
7153.8
6660.6
6116.1
5689.9
5159.2
4691.6
4228.0
3780.1
3354.0
2947.6
2539.2
2182.1
1860.5
1554.7
1306.1
1104.8
915.4
722.1
511.0
361.0
234.8
148.0
84.8
39.5
0.0

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