

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: P636798

Luminaire Tested: **IFLD-S-SA2D-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8692.6 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 123.9
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

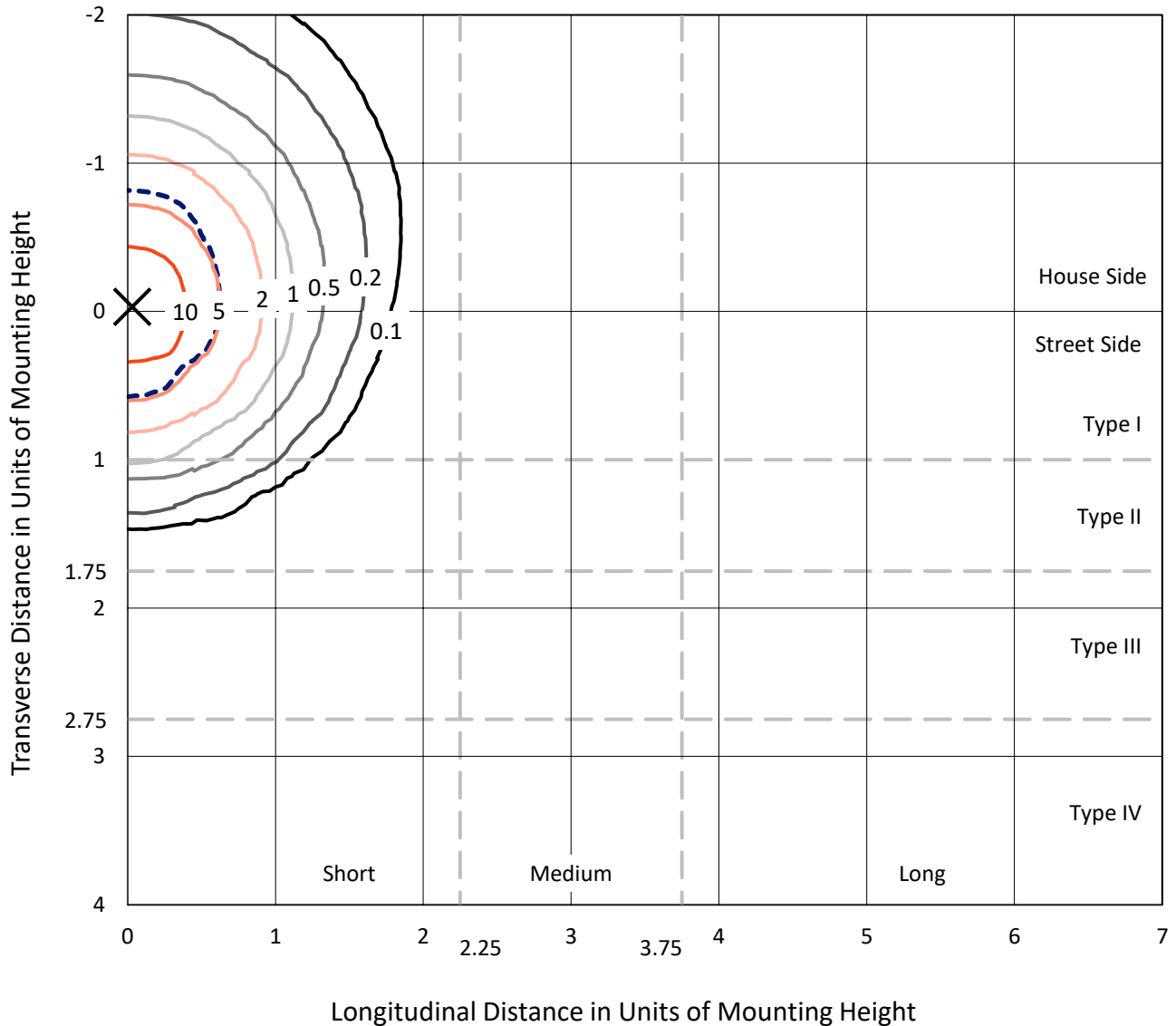




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Iso-Footcandle Lines of Horizontal Illumination

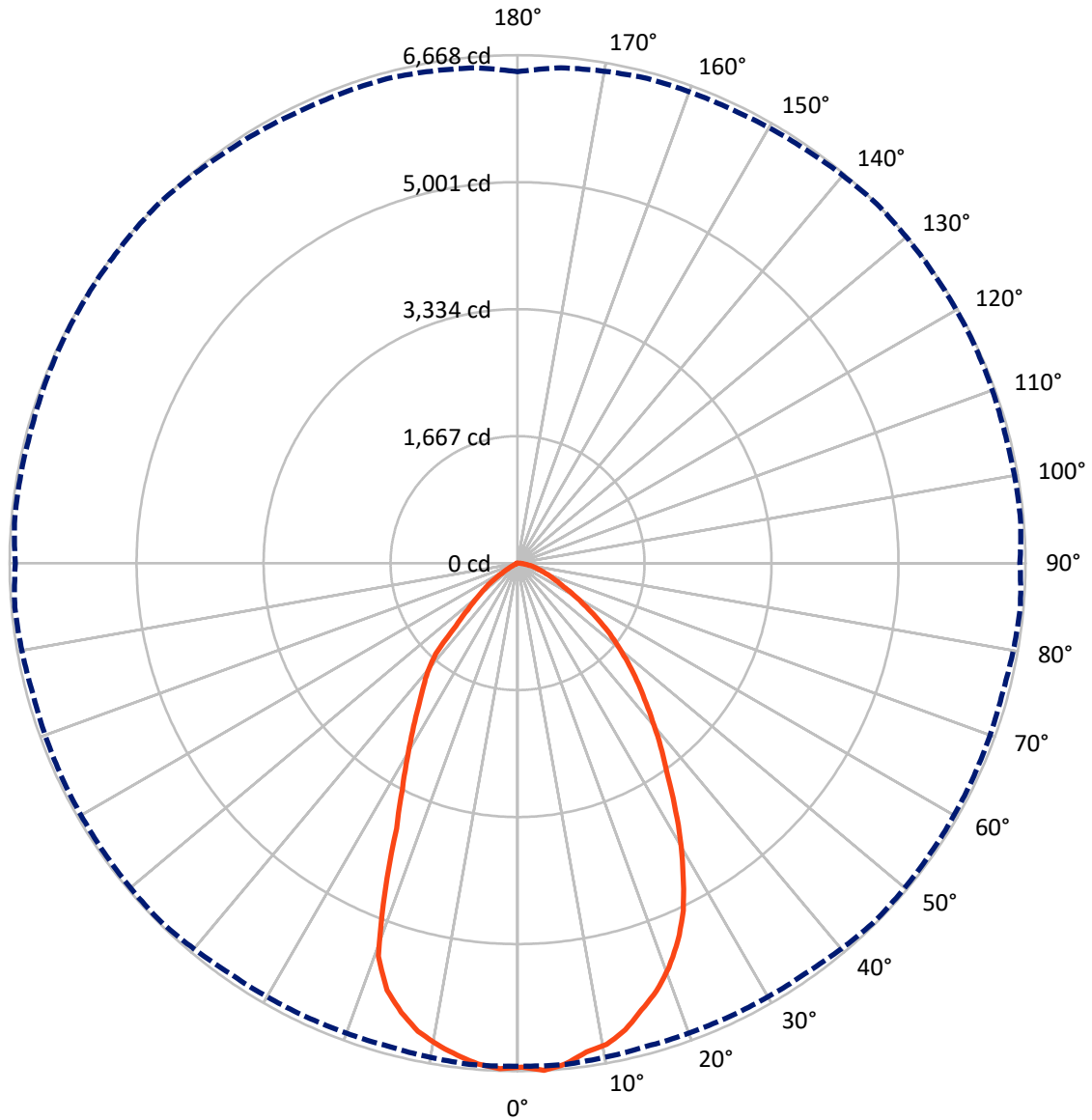
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 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	5148.2	0.0	5148.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3544.4	0.0	3544.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	8692.6	0.0	8692.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	7.1
10°-20°	1663.6	19.1
20°-30°	2028.9	23.3
30°-40°	1852.3	21.3
40°-50°	1338.6	15.4
50°-60°	730.9	8.4
60°-70°	302.2	3.5
70°-80°	122.4	1.4
80°-90°	33.3	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°	8692.6	100.0
0°-180°	8692.6	100.0



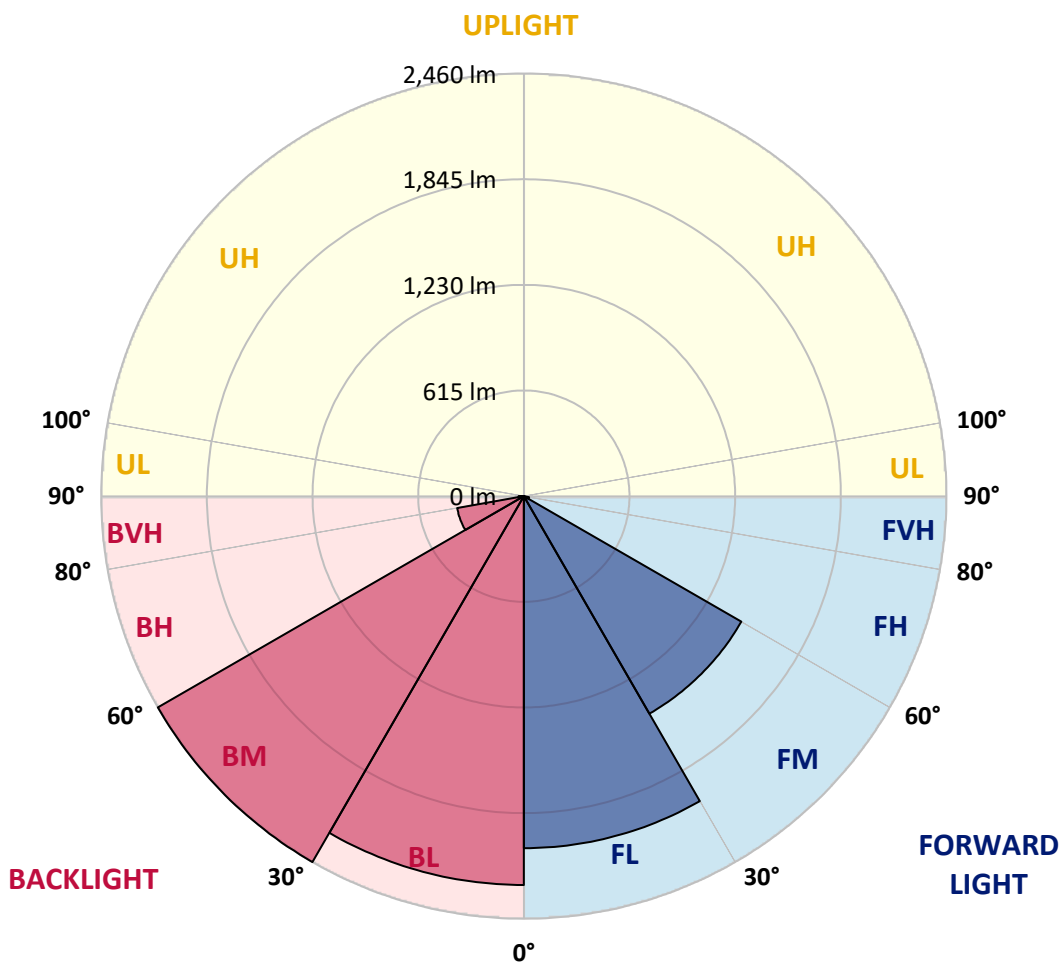
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.2	23.6			
FM (30°-60°)	1461.9	16.8			
FH (60°-80°)	30.6	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2263.7	26.0	B3/2500		
BM (30°-60°)	2459.9	28.3	B2/2500		
BH (60°-80°)	394.0	4.5	B1/500		G1/500
BVH (80°-90°)	30.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1
2.5°	6602.8	6611.4	6564.9	6569.8	6578.4	6640.8	6624.9	6610.2	6589.4	6624.9
5°	6594.3	6599.2	6550.2	6533.1	6540.4	6596.7	6545.3	6545.3	6540.4	6534.3
7.5°	6528.2	6530.6	6492.7	6462.1	6481.6	6507.4	6469.4	6487.8	6460.8	6481.6
10°	6429.0	6413.1	6367.8	6359.2	6381.3	6405.8	6380.0	6397.2	6372.7	6388.6
12.5°	6283.3	6258.9	6222.1	6211.1	6249.1	6282.1	6261.3	6251.5	6219.7	6258.9
15°	5721.5	5703.1	5786.4	5932.0	6063.0	6091.2	6069.1	6078.9	6012.8	6023.8
17.5°	4709.1	4674.9	4764.2	5109.4	5601.5	5861.0	5841.4	5777.8	5679.9	5701.9
20°	4279.5	4269.7	4259.9	4341.9	4685.9	5473.0	5499.9	5338.3	5198.8	5168.2
22.5°	4037.1	4033.4	4023.6	4042.0	4132.6	4638.1	4946.6	4797.3	4704.2	4695.7
25°	3815.5	3809.4	3780.0	3803.3	3803.3	3832.7	4228.1	4318.7	4236.6	4226.8
27.5°	3590.3	3579.3	3574.4	3585.4	3529.1	3330.8	3431.2	3873.1	3830.2	3832.7
30°	3346.7	3343.0	3329.6	3352.8	3179.0	2933.0	2869.3	3469.1	3477.7	3475.2
32.5°	2984.4	3000.3	3061.5	3087.2	2800.8	2597.6	2491.1	3001.5	3176.6	3172.9
35°	2167.9	2167.9	2367.4	2738.3	2454.3	2301.3	2243.8	2544.9	2879.1	2891.3
37.5°	1782.3	1788.4	1827.6	1996.5	2117.7	2063.8	2046.7	2142.2	2497.2	2516.8
40°	1603.6	1603.6	1603.6	1533.8	1530.1	1859.4	1849.6	1819.0	2156.9	2199.7
42.5°	1440.8	1444.4	1446.9	1270.6	1172.7	1607.3	1585.2	1538.7	1852.1	1902.3
45°	1273.1	1279.2	1286.5	1062.5	1019.7	1156.8	1341.6	1290.2	1550.9	1615.8
47.5°	777.3	787.1	953.6	900.9	905.8	892.4	1094.4	1085.8	1271.8	1363.7
50°	525.1	528.8	544.7	571.7	777.3	701.4	774.9	898.5	965.8	1105.4
52.5°	440.7	446.8	407.6	370.9	510.5	548.4	541.1	667.1	694.1	866.7
55°	309.7	329.3	310.9	307.3	290.1	426.0	410.1	512.9	530.0	658.6
57.5°	31.8	36.7	63.7	228.9	189.7	241.1	292.6	375.8	392.9	486.0
60°	2.4	2.4	6.1	31.8	138.3	144.4	202.0	231.4	264.4	339.1
62.5°	0.0	1.2	2.4	4.9	22.0	77.1	101.6	121.2	159.1	219.1
65°	0.0	0.0	1.2	3.7	4.9	29.4	39.2	63.7	86.9	135.9
67.5°	0.0	0.0	1.2	2.4	3.7	7.3	13.5	23.3	46.5	77.1
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.7	20.8	41.6
72.5°	0.0	0.0	1.2	1.2	2.4	6.1	7.3	9.8	14.7	20.8
75°	0.0	0.0	1.2	1.2	3.7	7.3	6.1	7.3	9.8	13.5
77.5°	0.0	0.0	1.2	2.4	3.7	7.3	6.1	7.3	7.3	8.6
80°	0.0	0.0	1.2	2.4	4.9	8.6	7.3	7.3	6.1	6.1
82.5°	0.0	0.0	1.2	3.7	4.9	11.0	11.0	9.8	4.9	3.7
85°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	9.8	3.7	2.4
87.5°	0.0	0.0	2.4	3.7	6.1	8.6	12.2	9.8	3.7	1.2
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°
6615.1	0°	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1	6615.1
6594.3	2.5°	6627.3	6620.0	6644.5	6654.2	6667.7	6616.3	6584.5	6585.7	6526.9
6519.6	5°	6558.8	6560.0	6591.8	6589.4	6602.8	6574.7	6562.4	6541.6	6490.2
6425.3	7.5°	6471.9	6460.8	6491.4	6514.7	6480.4	6500.0	6471.9	6481.6	6451.0
6342.1	10°	6404.5	6378.8	6407.0	6422.9	6424.1	6404.5	6377.6	6351.9	6340.9
6212.3	12.5°	6255.2	6222.1	6269.9	6291.9	6288.2	6250.3	6219.7	6225.8	6190.3
5984.7	15°	6049.5	6050.8	6085.0	6105.8	6086.3	6077.7	6080.1	6065.5	6034.8
5670.1	17.5°	5734.9	5753.3	5843.9	5894.1	5905.1	5888.0	5879.4	5862.2	5831.6
5168.2	20°	5211.0	5321.2	5482.8	5638.2	5668.8	5663.9	5633.3	5626.0	5608.9
4671.2	22.5°	4750.8	4832.8	5020.1	5262.4	5387.3	5399.5	5362.8	5351.8	5333.4
4226.8	25°	4274.6	4362.7	4531.6	4794.8	5053.1	5105.8	5099.6	5066.6	5047.0
3832.7	27.5°	3873.1	3961.2	4114.2	4351.7	4628.3	4797.3	4813.2	4760.6	4759.3
3481.4	30°	3510.7	3631.9	3748.2	3941.6	4209.7	4463.1	4490.0	4453.3	4457.0
3159.4	32.5°	3226.7	3327.1	3426.3	3556.0	3778.8	4073.8	4179.1	4144.8	4131.4
2891.3	35°	2936.6	3005.2	3106.8	3225.5	3377.3	3669.9	3852.3	3826.6	3813.1
2529.0	37.5°	2606.1	2723.6	2797.1	2930.5	3049.3	3281.8	3538.9	3535.2	3507.1
2220.5	40°	2267.0	2390.7	2502.1	2636.7	2728.5	2913.4	3198.6	3197.4	3201.0
1901.0	42.5°	1959.8	2073.6	2208.3	2355.2	2443.3	2578.0	2884.0	2901.1	2921.9
1637.9	45°	1681.9	1784.7	1909.6	2088.3	2194.8	2271.9	2543.7	2622.0	2620.8
1402.8	47.5°	1432.2	1528.9	1634.2	1808.0	1943.9	2013.7	2238.9	2350.3	2342.9
1150.7	50°	1202.1	1287.8	1397.9	1524.0	1706.4	1767.6	1935.3	2082.2	2071.2
916.9	52.5°	967.0	1085.8	1178.8	1293.9	1486.1	1546.0	1675.8	1819.0	1810.5
687.9	55°	754.1	869.1	981.7	1080.9	1242.5	1331.8	1424.9	1571.8	1569.3
538.6	57.5°	570.4	696.5	803.0	897.3	1025.8	1136.0	1210.6	1344.1	1361.2
368.5	60°	422.3	519.0	634.1	739.4	841.0	954.8	1005.0	1136.0	1143.3
252.2	62.5°	287.7	394.2	506.8	602.3	678.2	795.7	841.0	948.7	962.1
161.6	65°	199.5	268.1	396.6	465.2	558.2	658.6	703.9	789.5	816.5
93.0	67.5°	132.2	191.0	309.7	372.1	463.9	532.5	590.0	659.8	689.2
58.8	70°	72.2	140.8	221.6	293.8	373.4	439.5	495.8	552.1	577.8
26.9	72.5°	49.0	94.3	154.2	232.6	301.1	366.0	416.2	457.8	459.0
15.9	75°	24.5	63.7	117.5	179.9	235.0	298.7	344.0	368.5	339.1
9.8	77.5°	14.7	46.5	95.5	144.4	191.0	241.1	266.9	280.3	232.6
7.3	80°	8.6	33.1	74.7	115.1	132.2	177.5	202.0	205.7	155.5
4.9	82.5°	6.1	24.5	58.8	84.5	80.8	124.9	151.8	146.9	99.2
3.7	85°	3.7	17.1	36.7	52.6	49.0	82.0	88.1	90.6	57.5
2.4	87.5°	2.4	9.8	19.6	28.2	23.3	35.5	35.5	42.8	28.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6615.1
6451.0
6478.0
6399.6
6291.9
6159.7
6004.2
5818.2
5569.7
5328.5
5026.2
4756.9
4438.6
4132.6
3794.7
3530.3
3201.0
2910.9
2623.3
2345.4
2081.0
1828.8
1575.4
1353.9
1154.3
964.6
810.4
685.5
568.0
448.0
317.0
224.0
145.7
91.8
52.6
24.5
0.0

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