

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: P638000

Luminaire Tested: **IFLD-M-SA4B-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14156.9 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

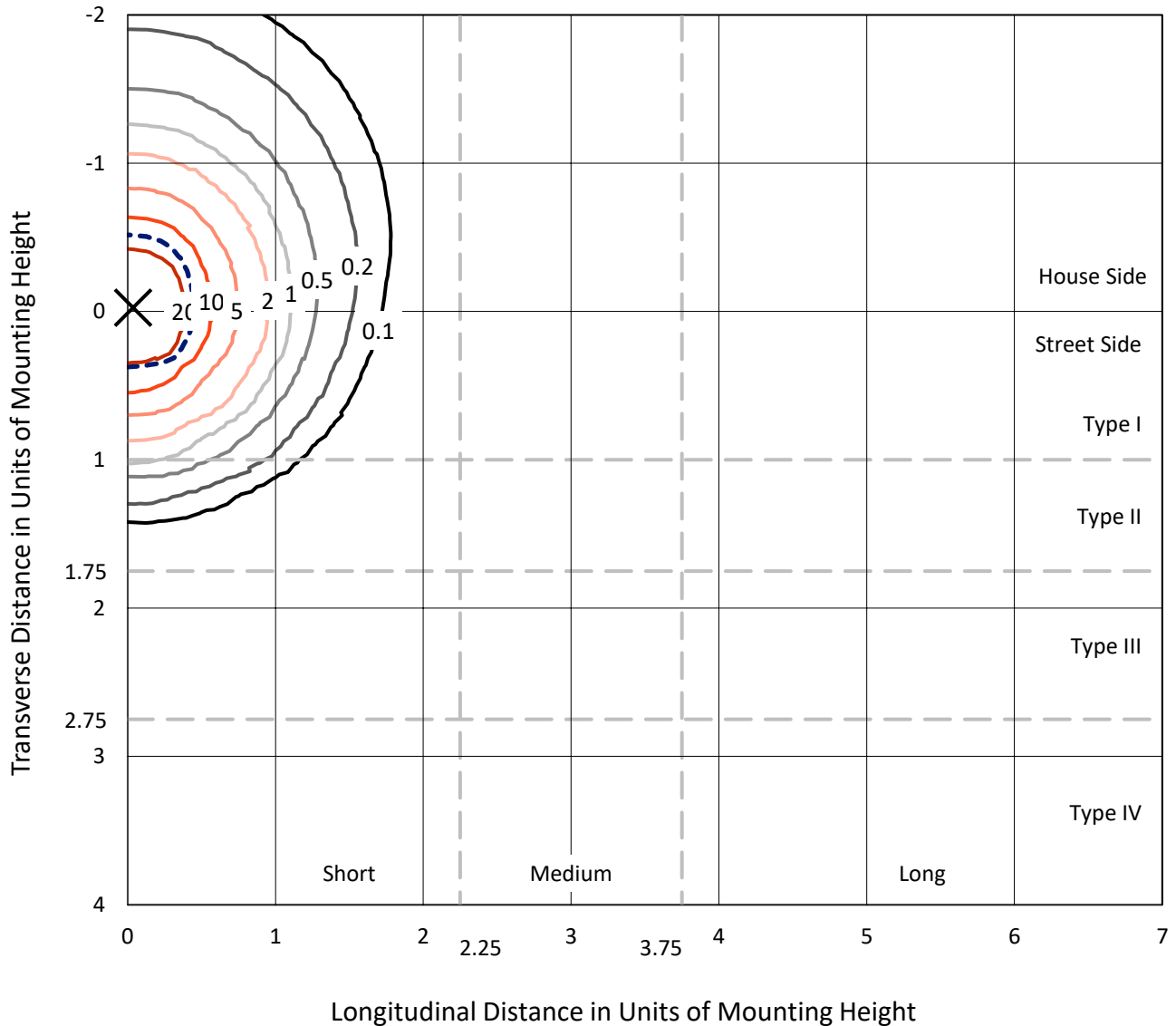
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

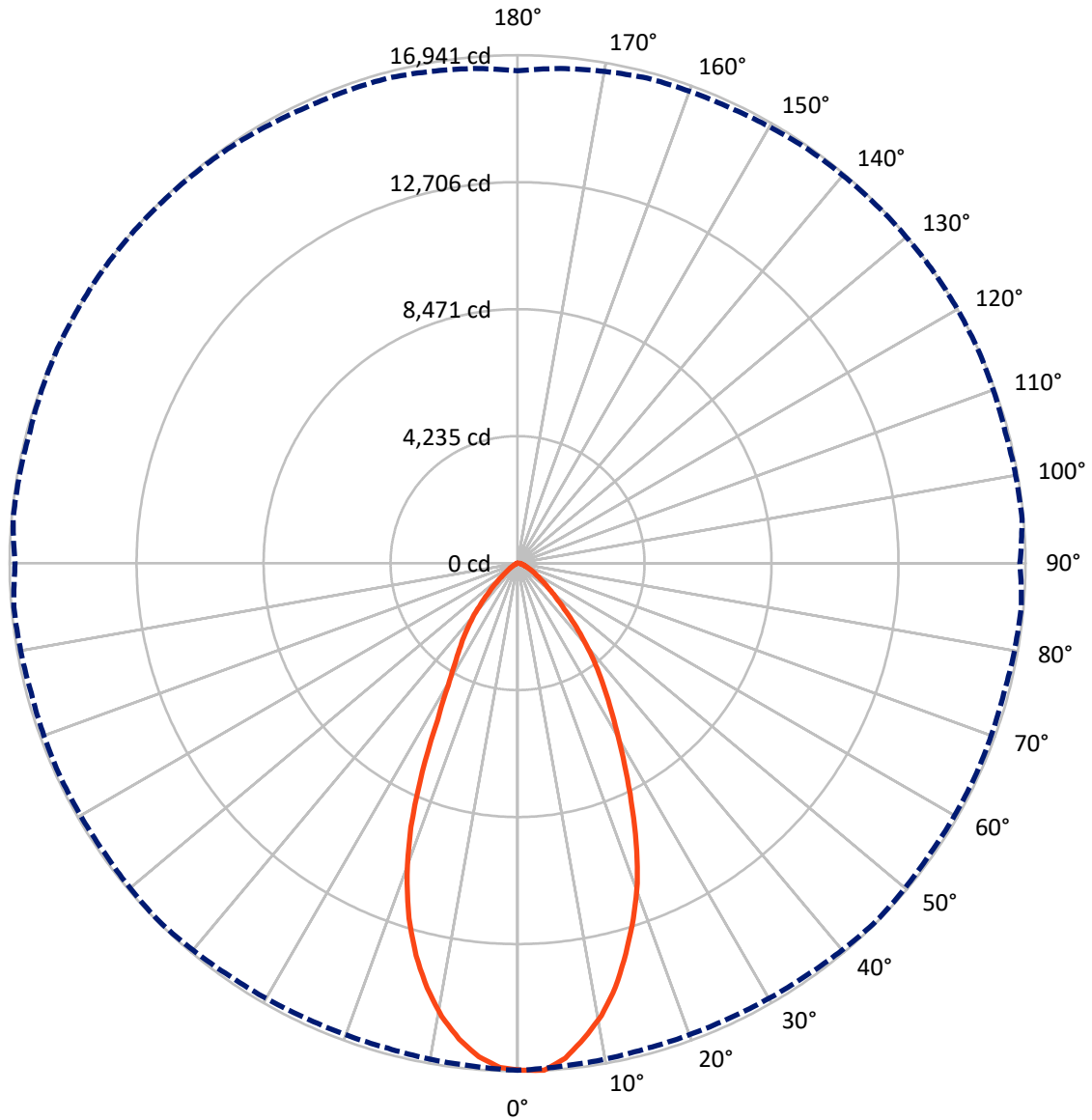
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8033.2	0.0	8033.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6123.7	0.0	6123.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	14156.9	0.0	14156.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1535.9	10.8
10°-20°	3661.2	25.9
20°-30°	3728.8	26.3
30°-40°	2780.6	19.6
40°-50°	1452.6	10.3
50°-60°	611.0	4.3
60°-70°	249.5	1.8
70°-80°	105.0	0.7
80°-90°	32.4	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°	14156.9	100.0
0°-180°	14156.9	100.0



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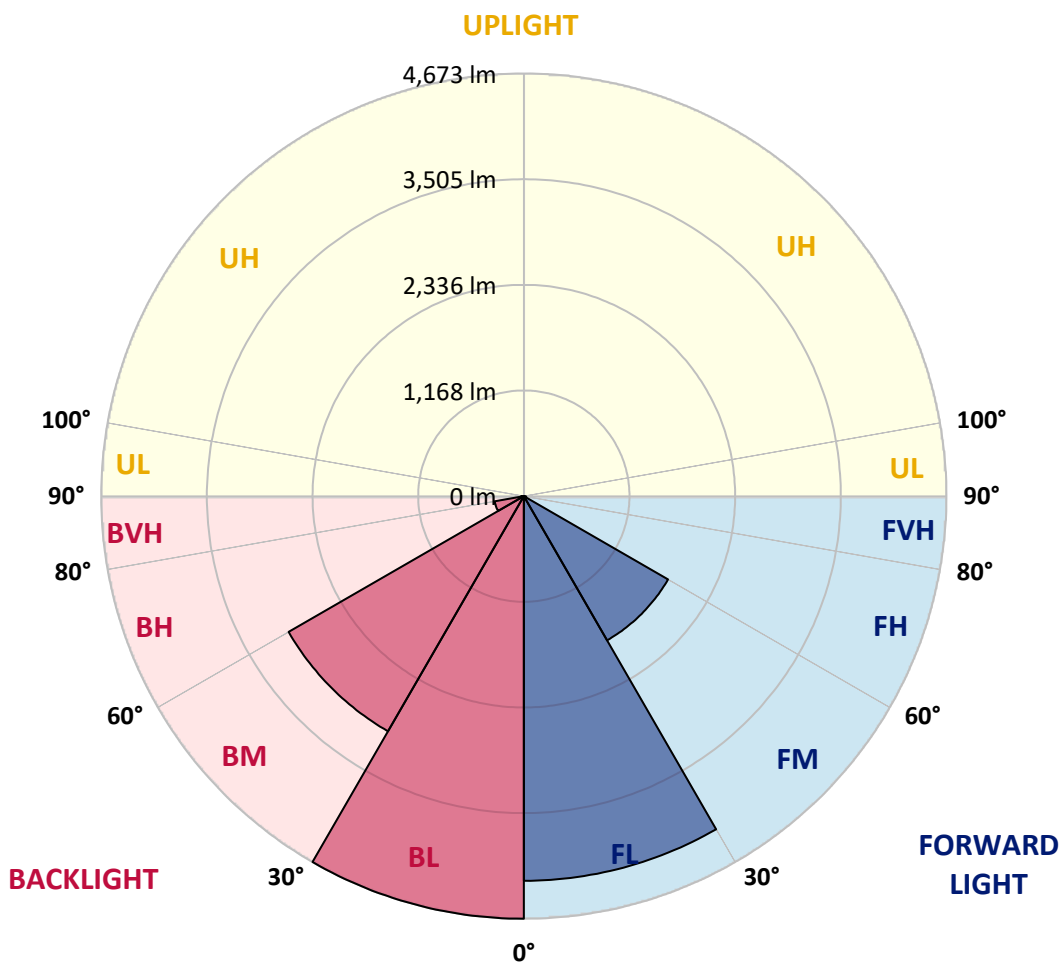
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.9	30.0			
FM (30°-60°)	1841.2	13.0			
FH (60°-80°)	26.6	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4672.9	33.0	B4/5000		
BM (30°-60°)	3003.0	21.2	B3/5000		
BH (60°-80°)	327.9	2.3	B1/500		G1/500
BVH (80°-90°)	29.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1
2.5°	16915.9	16846.8	16748.6	16739.5	16790.4	16901.4	16830.4	16834.1	16790.4	16865.0
5°	16650.4	16584.9	16517.7	16428.5	16503.1	16550.4	16514.0	16474.0	16417.6	16490.4
7.5°	16148.5	16112.1	16012.1	15972.1	16017.6	16070.3	15992.1	15981.2	15903.0	15997.6
10°	15381.1	15366.5	15268.3	15244.7	15284.7	15364.7	15330.2	15322.9	15273.8	15264.7
12.5°	14584.6	14528.2	14406.4	14399.1	14459.1	14579.1	14486.4	14397.3	14424.5	14448.2
15°	12533.3	12473.3	12775.1	13249.8	13498.9	13489.8	13517.1	13409.8	13377.1	13388.0
17.5°	9963.7	9861.9	9971.0	10705.7	11889.5	12576.9	12387.8	12156.8	12033.2	11951.3
20°	8599.8	8605.3	8585.3	8774.4	9512.7	11080.3	11034.8	10589.3	10427.4	10360.1
22.5°	7770.6	7739.6	7696.0	7756.0	7954.2	8874.4	9490.9	9081.7	9025.3	8950.8
25°	6957.7	6957.7	6904.9	6964.9	7021.3	7034.1	7652.4	7819.7	7710.5	7710.5
27.5°	6253.9	6217.5	6193.9	6221.2	6146.6	5788.4	5866.6	6723.1	6648.5	6603.1
30°	5555.6	5544.7	5504.7	5541.0	5264.6	4860.9	4697.2	5673.8	5752.0	5735.6
32.5°	4586.3	4630.0	4808.2	4864.6	4391.7	4066.2	3909.8	4710.0	5022.8	5010.0
35°	3117.0	3153.3	3357.0	4029.9	3640.7	3407.9	3362.5	3746.2	4260.8	4309.9
37.5°	2482.3	2476.8	2535.0	2655.0	2926.0	2869.6	2856.9	2956.9	3475.2	3497.0
40°	2045.8	2038.6	2036.7	1938.5	1871.3	2385.9	2351.4	2291.3	2740.5	2784.2
42.5°	1649.4	1656.7	1662.1	1447.5	1349.3	1840.3	1820.3	1758.5	2149.5	2200.4
45°	1294.8	1293.0	1303.9	1078.4	1051.1	1176.6	1360.3	1311.2	1622.1	1676.7
47.5°	671.0	694.7	842.0	834.7	847.4	834.7	1029.3	1016.6	1220.2	1307.5
50°	451.0	458.3	471.0	472.8	667.4	614.7	698.3	791.1	854.7	989.3
52.5°	349.2	354.6	321.9	301.9	409.2	454.6	458.3	547.4	596.5	732.9
55°	194.6	218.2	234.6	236.4	225.5	336.4	334.6	405.5	443.7	534.6
57.5°	25.5	30.9	47.3	152.8	150.9	187.3	234.6	294.6	316.4	391.0
60°	1.8	3.6	5.5	23.6	100.0	109.1	160.0	183.7	220.0	274.6
62.5°	0.0	0.0	1.8	5.5	20.0	63.6	83.7	96.4	129.1	180.0
65°	0.0	0.0	1.8	3.6	7.3	23.6	32.7	52.7	76.4	110.9
67.5°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	23.6	40.0	67.3
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.5	21.8	36.4
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	9.1	10.9	14.5	20.0
75°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	9.1	10.9	12.7
77.5°	0.0	0.0	1.8	3.6	5.5	9.1	7.3	9.1	9.1	9.1
80°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	9.1	7.3	7.3
82.5°	0.0	0.0	1.8	5.5	5.5	12.7	12.7	12.7	5.5	5.5
85°	0.0	0.0	3.6	5.5	9.1	14.5	14.5	10.9	5.5	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.3	10.9	9.1	3.6	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°
16914.1	0°	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1	16914.1
16755.9	2.5°	16890.5	16845.0	16930.5	16941.4	16905.0	16859.5	16754.1	16745.0	16561.3
16384.9	5°	16570.4	16495.8	16550.4	16586.8	16574.0	16524.9	16481.3	16441.3	16275.8
15783.0	7.5°	15973.9	15946.6	15972.1	15999.4	16052.1	15999.4	15981.2	15939.4	15775.7
15190.1	10°	15312.0	15261.1	15357.4	15344.7	15330.2	15315.6	15239.2	15246.5	15053.7
14382.7	12.5°	14499.1	14413.6	14506.4	14517.3	14506.4	14455.5	14370.0	14406.4	14230.0
13291.6	15°	13406.2	13397.1	13464.4	13508.0	13538.9	13484.4	13455.3	13473.4	13368.0
11887.7	17.5°	12064.1	12182.3	12402.3	12476.9	12478.7	12535.1	12518.7	12496.9	12418.7
10332.9	20°	10485.6	10712.9	11051.2	11398.5	11498.5	11451.2	11429.4	11469.4	11353.0
8872.6	22.5°	9029.0	9223.6	9616.4	10123.7	10416.5	10445.6	10440.1	10405.6	10360.1
7703.3	25°	7792.4	7965.1	8341.6	8805.3	9367.2	9450.9	9454.5	9443.6	9403.6
6643.1	27.5°	6748.5	6957.7	7165.0	7579.6	8177.9	8523.4	8479.8	8467.0	8452.5
5748.4	30°	5802.9	6066.6	6261.2	6519.4	7055.9	7523.2	7568.7	7546.9	7512.3
5008.2	32.5°	5053.7	5210.1	5457.4	5632.0	6017.5	6546.7	6721.3	6704.9	6674.0
4340.8	35°	4402.6	4464.5	4659.1	4853.6	5110.1	5622.9	5881.1	5844.7	5839.3
3537.0	37.5°	3626.1	3833.4	3940.7	4137.1	4317.2	4715.4	5071.9	5055.5	5057.3
2844.2	40°	2927.8	3047.8	3260.6	3426.1	3591.6	3882.5	4279.0	4289.9	4286.3
2202.2	42.5°	2247.7	2364.1	2587.8	2767.8	2915.1	3095.1	3473.4	3486.1	3502.5
1714.9	45°	1754.9	1829.4	1993.1	2180.4	2336.8	2445.9	2733.2	2815.1	2816.9
1329.3	47.5°	1362.1	1447.5	1563.9	1744.0	1896.7	1974.9	2184.0	2295.0	2289.5
1020.2	50°	1069.3	1147.5	1242.1	1383.9	1549.4	1611.2	1765.8	1874.9	1869.4
769.2	52.5°	818.3	918.4	1002.0	1111.1	1273.0	1325.7	1436.6	1562.1	1543.9
563.7	55°	620.1	722.0	800.2	891.1	1038.4	1105.7	1182.0	1282.1	1285.7
436.4	57.5°	467.4	572.8	643.8	736.5	847.4	922.0	980.2	1087.5	1085.7
298.2	60°	334.6	425.5	511.0	607.4	692.9	778.3	818.3	920.2	923.8
210.9	62.5°	241.9	327.3	409.2	492.8	569.2	652.9	689.2	769.2	780.1
138.2	65°	169.1	229.1	323.7	387.3	472.8	534.6	581.9	651.0	663.8
81.8	67.5°	109.1	165.5	256.4	312.8	391.0	443.7	492.8	547.4	563.7
52.7	70°	65.5	125.5	190.9	251.0	321.9	369.2	416.4	463.7	472.8
25.5	72.5°	41.8	87.3	138.2	203.7	258.2	309.1	351.0	385.5	358.2
16.4	75°	23.6	60.0	109.1	160.0	209.1	258.2	292.8	311.0	249.1
10.9	77.5°	14.5	43.6	89.1	129.1	161.8	207.3	229.1	240.0	178.2
7.3	80°	9.1	32.7	74.6	105.5	105.5	152.8	178.2	187.3	129.1
5.5	82.5°	7.3	23.6	58.2	80.0	70.9	114.6	140.0	141.8	90.9
3.6	85°	5.5	18.2	36.4	52.7	49.1	80.0	81.8	90.9	60.0
3.6	87.5°	3.6	10.9	21.8	30.9	27.3	38.2	43.6	49.1	32.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16914.1
16417.6
16143.0
15741.1
14988.3
14179.0
13240.7
12302.3
11269.4
10272.8
9269.0
8367.0
7468.7
6592.2
5779.3
4999.1
4222.6
3447.9
2769.6
2269.5
1869.4
1545.7
1285.7
1082.0
914.7
776.5
660.1
561.9
465.5
332.8
236.4
167.3
120.0
83.7
54.6
29.1
0.0

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