

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: P637390

Luminaire Tested: **IFLD-M-SA4A-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17811.4 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

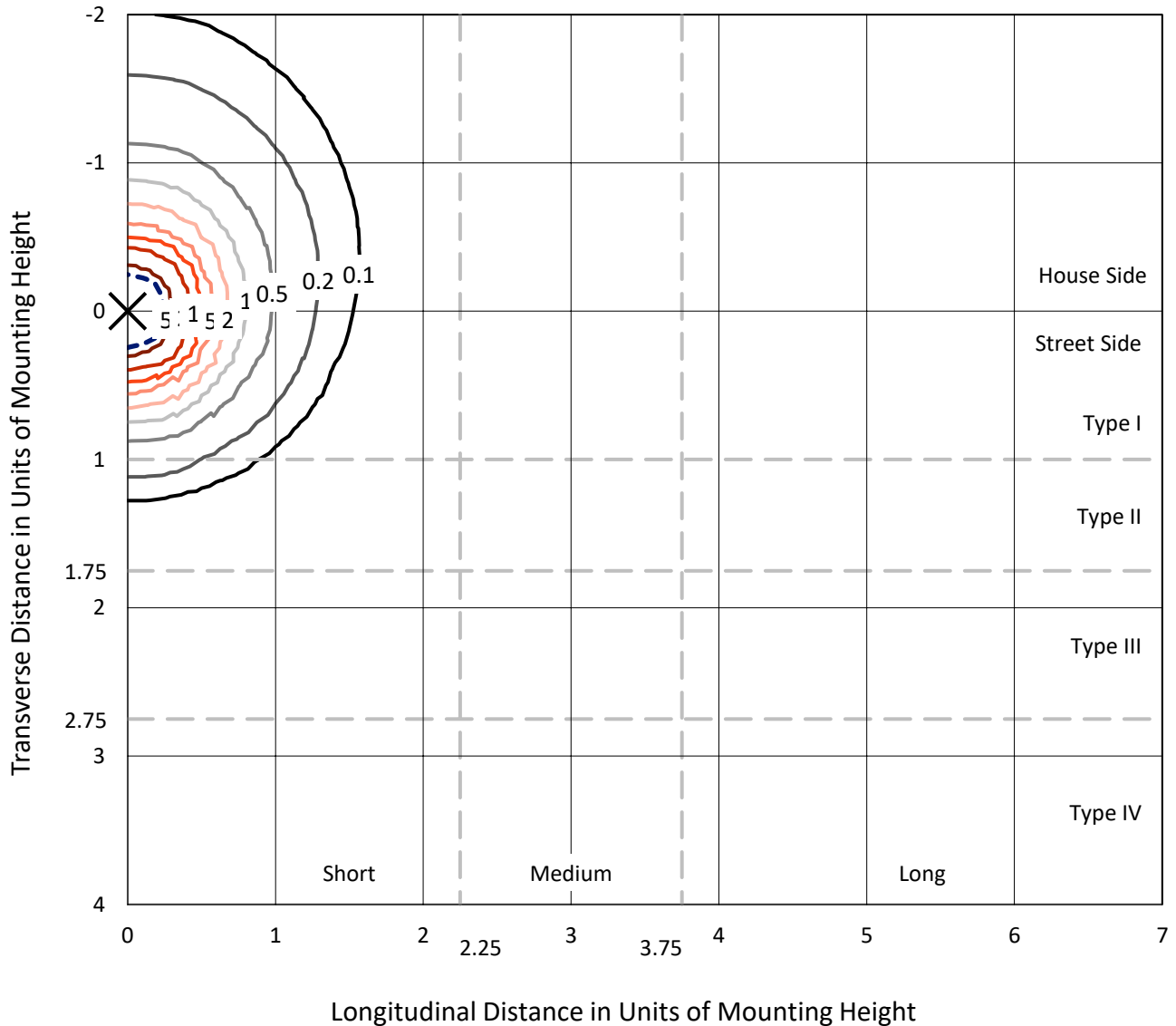
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

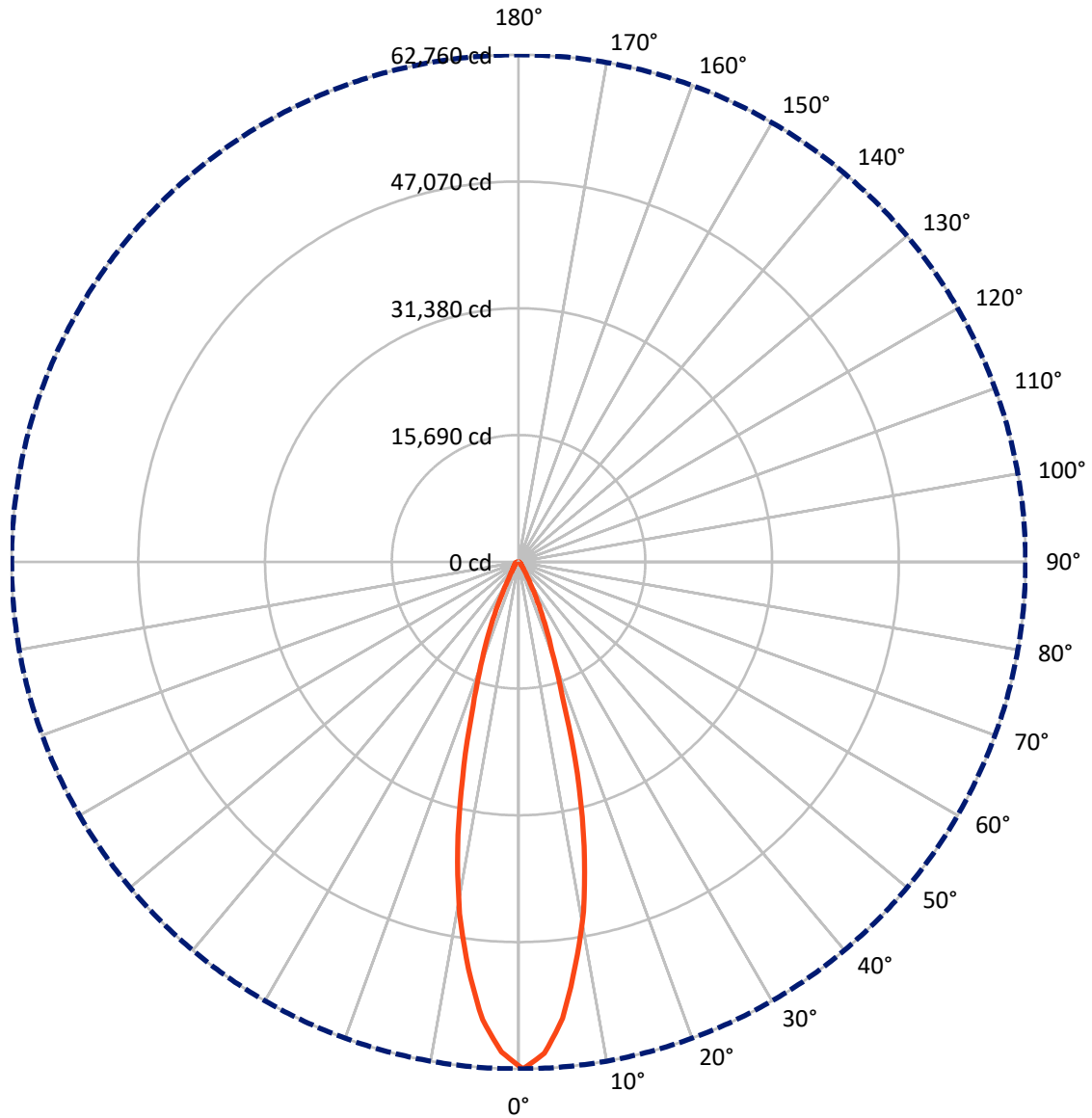
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 156.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9391.4	0.0	9391.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8420.0	0.0	8420.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	17811.4	0.0	17811.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5065.3	28.4
10°-20°	7671.3	43.1
20°-30°	3237.3	18.2
30°-40°	844.3	4.7
40°-50°	427.1	2.4
50°-60°	279.1	1.6
60°-70°	167.2	0.9
70°-80°	88.0	0.5
80°-90°	31.8	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°	17811.4	100.0
0°-180°	17811.4	100.0

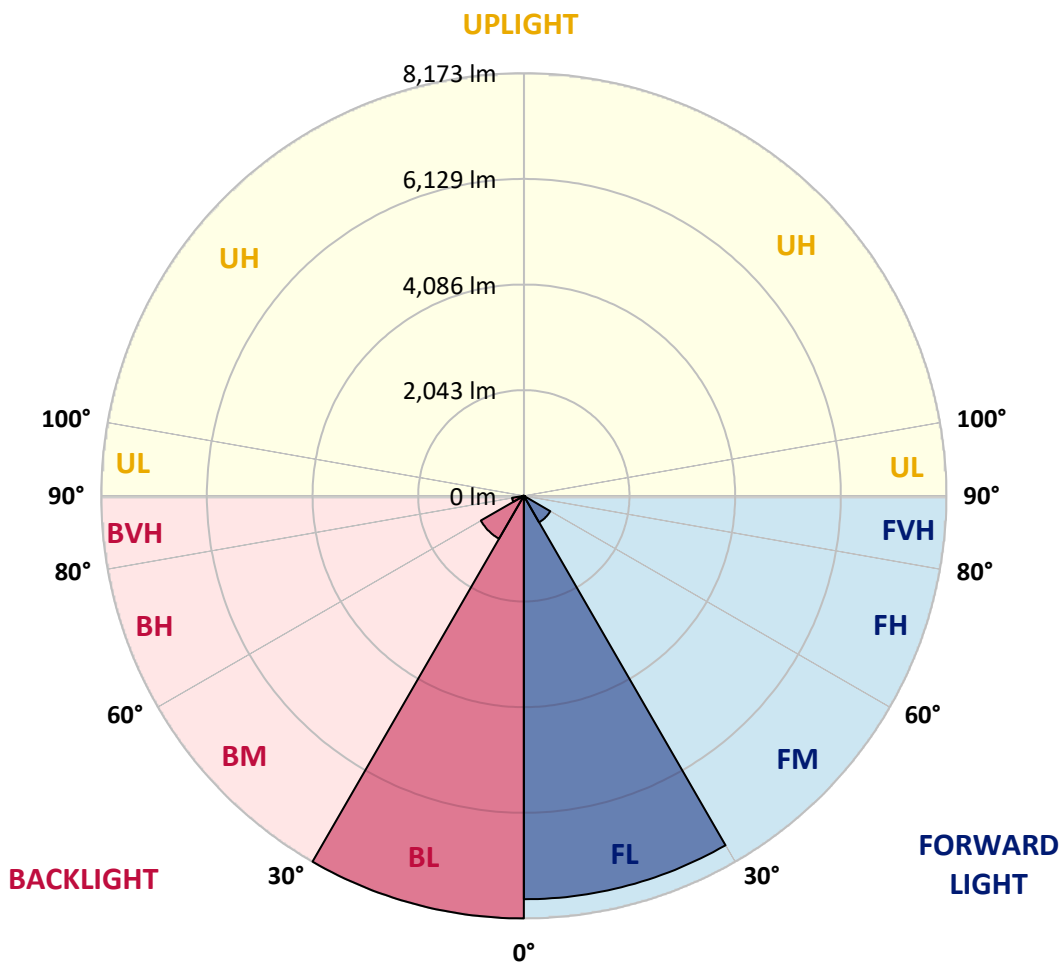


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7801.3	43.8			
FM (30°-60°)	590.8	3.3			
FH (60°-80°)	24.1	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8172.7	45.9	B5		
BM (30°-60°)	959.7	5.4	B1/1000		
BH (60°-80°)	231.1	1.3	B1/500		G0/660
BVH (80°-90°)	27.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9
2.5°	60931.7	60965.7	60839.6	61111.7	60899.7	61467.7	61185.7	61625.7	61477.7	61723.8
5°	56771.1	56715.1	56679.1	57101.2	56979.2	57589.2	57199.2	57071.2	57467.2	57395.2
7.5°	50488.3	50636.4	50552.4	50662.4	50724.4	51420.5	51640.5	51468.5	51474.5	51574.5
10°	44047.5	43829.5	43519.5	43725.5	44161.5	44465.6	44343.6	44595.6	44539.6	44777.6
12.5°	36122.5	36294.6	36120.5	35936.5	36698.6	36614.6	36826.6	36964.6	36618.6	37388.7
15°	27209.4	27299.4	27511.5	27497.5	28083.5	28201.5	28173.5	28319.6	28049.5	28177.5
17.5°	17480.2	17784.2	18354.3	19318.4	20402.6	20528.6	20496.6	20376.6	20246.5	20102.5
20°	11741.5	11709.5	11915.5	12197.5	14441.8	15035.9	15017.9	14641.8	14097.8	13993.8
22.5°	8225.0	8285.0	8257.0	8537.1	9001.1	10639.3	10437.3	10055.3	9877.2	9761.2
25°	5410.7	5388.7	5528.7	5612.7	6010.8	6210.8	6918.9	6776.9	6502.8	6532.8
27.5°	3298.4	3326.4	3378.4	3450.4	3732.5	3668.5	4072.5	4126.5	4038.5	3944.5
30°	2024.3	2044.3	2086.3	2138.3	2236.3	2166.3	2278.3	2472.3	2440.3	2374.3
32.5°	1374.2	1376.2	1406.2	1426.2	1414.2	1348.2	1384.2	1568.2	1572.2	1566.2
35°	988.1	988.1	1016.1	1032.1	998.1	944.1	950.1	1064.1	1114.1	1124.1
37.5°	682.1	684.1	732.1	780.1	742.1	728.1	704.1	780.1	860.1	872.1
40°	518.1	516.1	540.1	576.1	580.1	554.1	562.1	610.1	692.1	702.1
42.5°	420.1	422.1	434.1	430.1	432.1	466.1	478.1	500.1	576.1	594.1
45°	354.0	356.0	362.0	342.0	334.0	386.0	402.1	414.1	478.1	500.1
47.5°	292.0	296.0	302.0	280.0	276.0	310.0	338.0	350.0	406.1	430.1
50°	210.0	214.0	236.0	224.0	236.0	244.0	282.0	300.0	338.0	370.0
52.5°	152.0	156.0	162.0	164.0	194.0	198.0	226.0	254.0	272.0	308.0
55°	120.0	124.0	120.0	116.0	142.0	164.0	174.0	204.0	218.0	260.0
57.5°	68.0	72.0	78.0	90.0	94.0	126.0	136.0	162.0	174.0	214.0
60°	12.0	14.0	22.0	54.0	66.0	80.0	102.0	124.0	140.0	168.0
62.5°	2.0	2.0	4.0	12.0	38.0	56.0	74.0	88.0	102.0	128.0
65°	0.0	0.0	2.0	4.0	10.0	32.0	40.0	52.0	70.0	92.0
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	18.0	32.0	40.0	62.0
70°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	14.0	24.0	38.0
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	12.0	24.0
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	10.0	10.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	8.0	8.0
80°	0.0	0.0	4.0	6.0	10.0	14.0	18.0	14.0	8.0	4.0
82.5°	0.0	0.0	4.0	8.0	10.0	16.0	22.0	18.0	8.0	4.0
85°	0.0	0.0	2.0	6.0	12.0	16.0	22.0	16.0	8.0	2.0
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	12.0	10.0	4.0	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°
62759.9	0°	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9	62759.9
61257.7	2.5°	61609.7	61929.8	61995.8	61907.8	62035.8	61805.8	61629.7	61173.7	60899.7
57373.2	5°	57743.3	57695.3	58029.3	58139.3	58125.3	57949.3	57703.3	57427.2	57159.2
51380.5	7.5°	51700.5	51762.5	52066.5	52260.6	52162.6	51942.5	51772.5	51564.5	51384.5
44863.6	10°	45273.7	44847.6	45225.7	45225.7	45487.7	44865.6	44923.6	44399.6	44423.6
37374.7	12.5°	37502.7	37656.7	37718.7	37896.8	37590.7	37260.7	36856.6	36776.6	36526.6
27933.5	15°	28335.6	28775.6	28397.6	29043.6	28731.6	28387.6	28325.6	27705.5	27901.5
20260.5	17.5°	20160.5	20646.6	20798.6	21168.7	20884.6	20680.6	20422.6	20234.5	20220.5
14183.8	20°	14295.8	14783.9	14895.9	15339.9	15307.9	15243.9	15025.9	14787.9	14529.8
9655.2	22.5°	9801.2	10199.3	10571.3	11169.4	11159.4	10971.4	10949.4	10613.3	10619.3
6522.8	25°	6590.8	6880.9	6968.9	7581.0	7649.0	7629.0	7514.9	7202.9	7320.9
3984.5	27.5°	3988.5	4242.5	4540.6	4756.6	4960.6	4928.6	4814.6	4640.6	4564.6
2394.3	30°	2458.3	2572.3	2682.3	2942.4	3064.4	3128.4	3074.4	2912.4	2924.4
1576.2	32.5°	1610.2	1706.2	1786.2	1950.2	2014.3	2132.3	2110.3	2076.3	2036.3
1134.1	35°	1174.1	1244.2	1298.2	1374.2	1456.2	1556.2	1572.2	1558.2	1542.2
876.1	37.5°	896.1	968.1	1030.1	1062.1	1126.1	1204.2	1248.2	1246.2	1234.2
714.1	40°	728.1	782.1	838.1	880.1	924.1	982.1	1036.1	1042.1	1042.1
600.1	42.5°	608.1	654.1	710.1	754.1	786.1	840.1	896.1	900.1	896.1
508.1	45°	520.1	560.1	614.1	666.1	692.1	732.1	786.1	798.1	790.1
436.1	47.5°	452.1	488.1	534.1	590.1	618.1	654.1	704.1	718.1	716.1
376.0	50°	388.0	430.1	476.1	522.1	558.1	592.1	640.1	656.1	650.1
320.0	52.5°	342.0	380.0	420.1	470.1	512.1	542.1	580.1	608.1	600.1
270.0	55°	286.0	332.0	374.0	416.1	468.1	500.1	536.1	570.1	562.1
228.0	57.5°	248.0	286.0	334.0	372.0	424.1	462.1	498.1	534.1	532.1
186.0	60°	208.0	248.0	294.0	334.0	382.0	424.1	460.1	500.1	504.1
140.0	62.5°	164.0	212.0	252.0	298.0	346.0	392.0	424.1	464.1	470.1
106.0	65°	124.0	174.0	218.0	262.0	310.0	360.0	388.0	422.1	428.1
78.0	67.5°	92.0	134.0	186.0	226.0	276.0	324.0	350.0	378.0	388.0
48.0	70°	70.0	102.0	156.0	194.0	246.0	284.0	312.0	336.0	344.0
32.0	72.5°	44.0	80.0	126.0	166.0	212.0	246.0	266.0	280.0	292.0
18.0	75°	30.0	62.0	102.0	142.0	176.0	202.0	220.0	232.0	242.0
8.0	77.5°	18.0	48.0	84.0	118.0	140.0	160.0	178.0	186.0	192.0
6.0	80°	10.0	36.0	70.0	96.0	110.0	124.0	138.0	148.0	152.0
4.0	82.5°	6.0	28.0	56.0	74.0	80.0	94.0	108.0	114.0	114.0
2.0	85°	4.0	20.0	38.0	54.0	58.0	68.0	72.0	76.0	80.0
2.0	87.5°	4.0	12.0	24.0	30.0	32.0	36.0	38.0	42.0	46.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
62759.9
60697.6
56859.1
50774.4
44189.6
36298.6
27705.5
19848.5
14417.8
10503.3
7134.9
4498.6
2872.4
2022.3
1536.2
1228.2
1030.1
892.1
790.1
712.1
646.1
598.1
566.1
534.1
506.1
474.1
434.1
392.0
348.0
290.0
240.0
190.0
148.0
112.0
78.0
44.0
0.0

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