

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: P637395

Luminaire Tested: **IFLD-L-SA7A-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30188.8 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

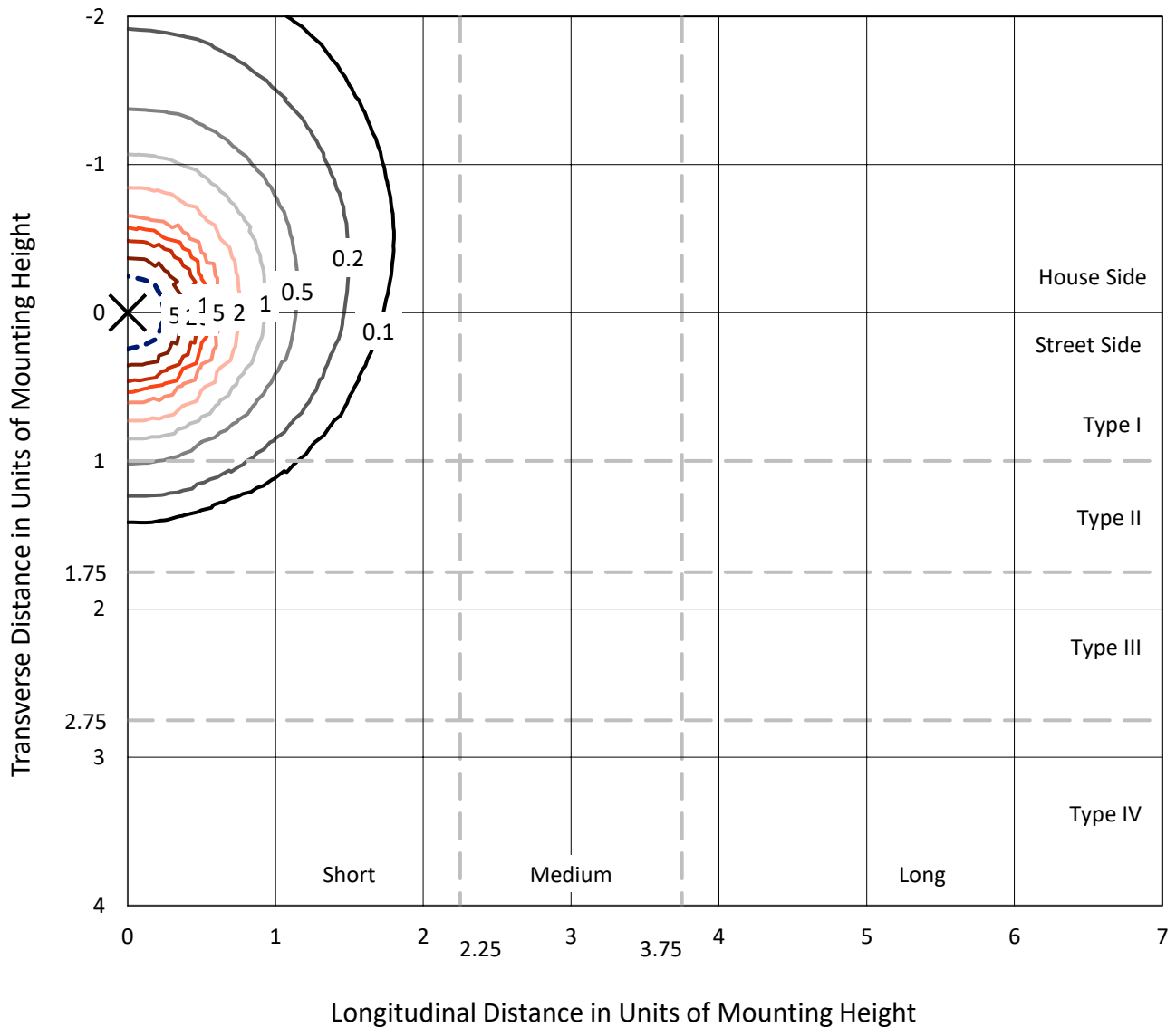
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

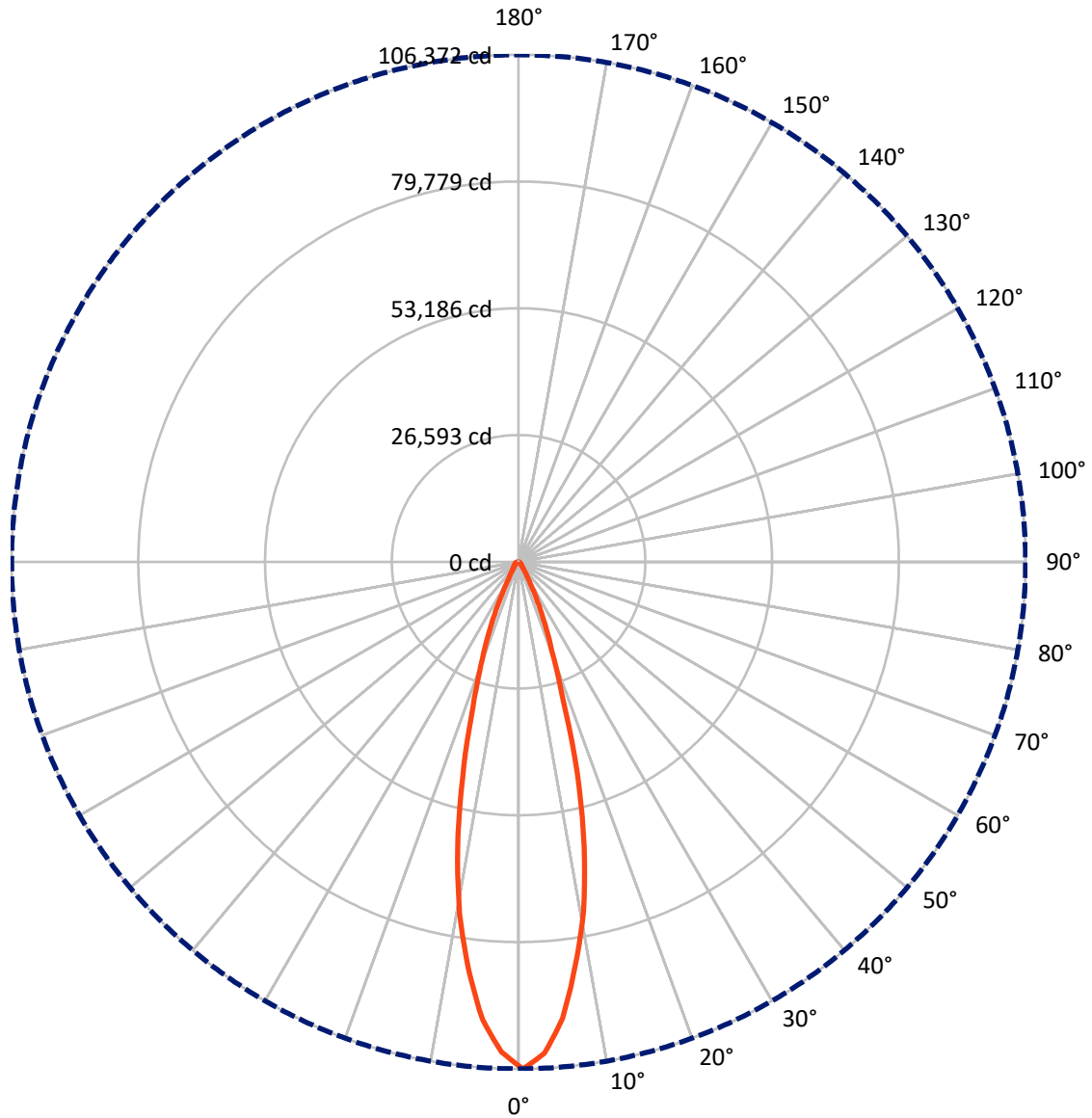
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 265.9 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	15917.6	0.0	15917.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14271.2	0.0	14271.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	30188.8	0.0	30188.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8585.2	28.4
10°-20°	13002.2	43.1
20°-30°	5487.0	18.2
30°-40°	1431.1	4.7
40°-50°	723.8	2.4
50°-60°	473.1	1.6
60°-70°	283.4	0.9
70°-80°	149.1	0.5
80°-90°	53.9	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°	30188.8	100.0
0°-180°	30188.8	100.0

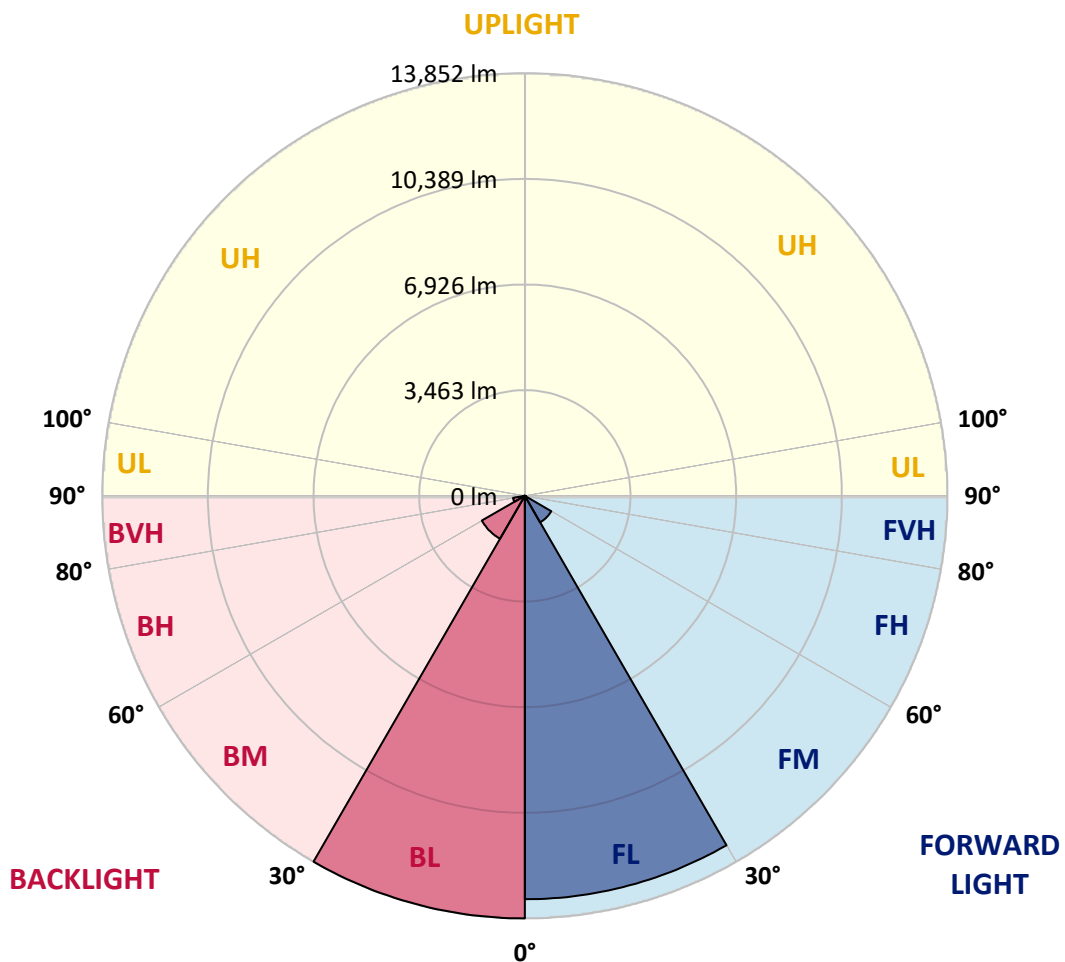


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13222.5	43.8			
FM (30°-60°)	1001.4	3.3			
FH (60°-80°)	40.8	0.1			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	13851.9	45.9	B5		
BM (30°-60°)	1626.6	5.4	B2/2500		
BH (60°-80°)	391.8	1.3	B1/500		G0/660
BVH (80°-90°)	47.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4
2.5°	103273.7	103331.3	103117.7	103578.8	103219.4	104182.3	103704.2	104450.1	104199.2	104616.2
5°	96222.0	96127.0	96066.0	96781.3	96574.5	97608.6	96947.5	96730.5	97401.8	97279.7
7.5°	85573.2	85824.1	85681.7	85868.1	85973.2	87153.0	87526.0	87234.4	87244.6	87414.1
10°	74656.6	74287.1	73761.6	74110.8	74849.8	75365.2	75158.4	75585.5	75490.6	75894.0
12.5°	61224.4	61516.0	61221.1	60909.2	62200.8	62058.4	62417.8	62651.7	62065.2	63370.5
15°	46117.5	46270.1	46629.4	46605.7	47599.1	47799.1	47751.6	47999.1	47541.4	47758.4
17.5°	29627.4	30142.7	31108.9	32743.0	34580.5	34794.1	34739.8	34536.4	34316.1	34072.0
20°	19900.7	19846.5	20195.7	20673.7	24477.6	25484.5	25454.0	24816.6	23894.5	23718.2
22.5°	13940.7	14042.4	13994.9	14469.6	15256.1	18032.7	17690.3	17042.8	16741.0	16544.4
25°	9170.6	9133.3	9370.6	9513.0	10187.7	10526.7	11726.9	11486.2	11021.7	11072.5
27.5°	5590.5	5638.0	5726.1	5848.2	6326.2	6217.7	6902.5	6994.1	6844.9	6685.6
30°	3430.9	3464.8	3536.0	3624.2	3790.3	3671.6	3861.5	4190.3	4136.1	4024.2
32.5°	2329.1	2332.5	2383.3	2417.2	2396.9	2285.0	2346.1	2658.0	2664.7	2654.6
35°	1674.8	1674.8	1722.2	1749.4	1691.7	1600.2	1610.4	1803.6	1888.4	1905.3
37.5°	1156.1	1159.5	1240.8	1322.2	1257.8	1234.0	1193.4	1322.2	1457.8	1478.1
40°	878.1	874.7	915.4	976.4	983.2	939.1	952.7	1034.0	1173.0	1190.0
42.5°	712.0	715.3	735.7	728.9	732.3	789.9	810.3	847.6	976.4	1006.9
45°	600.1	603.5	613.6	579.7	566.2	654.3	681.4	701.8	810.3	847.6
47.5°	495.0	501.8	511.9	474.6	467.9	525.5	573.0	593.3	688.2	728.9
50°	356.0	362.8	400.0	379.7	400.0	413.6	478.0	508.5	573.0	627.2
52.5°	257.7	264.4	274.6	278.0	328.9	335.6	383.1	430.6	461.1	522.1
55°	203.4	210.2	203.4	196.6	240.7	278.0	295.0	345.8	369.5	440.7
57.5°	115.3	122.0	132.2	152.6	159.3	213.6	230.5	274.6	295.0	362.8
60°	20.3	23.7	37.3	91.5	111.9	135.6	172.9	210.2	237.3	284.8
62.5°	3.4	3.4	6.8	20.3	64.4	94.9	125.4	149.2	172.9	217.0
65°	0.0	0.0	3.4	6.8	17.0	54.2	67.8	88.1	118.7	156.0
67.5°	0.0	0.0	3.4	6.8	10.2	20.3	30.5	54.2	67.8	105.1
70°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	23.7	40.7	64.4
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	20.3	20.3	40.7
75°	0.0	0.0	3.4	6.8	10.2	17.0	20.3	20.3	17.0	17.0
77.5°	0.0	0.0	3.4	6.8	13.6	20.3	23.7	20.3	13.6	13.6
80°	0.0	0.0	6.8	10.2	17.0	23.7	30.5	23.7	13.6	6.8
82.5°	0.0	0.0	6.8	13.6	17.0	27.1	37.3	30.5	13.6	6.8
85°	0.0	0.0	3.4	10.2	20.3	27.1	37.3	27.1	13.6	3.4
87.5°	0.0	0.0	3.4	3.4	6.8	10.2	20.3	17.0	6.8	3.4
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°
106372.4	0°	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4	106372.4
103826.3	2.5°	104423.0	104965.4	105077.3	104928.1	105145.1	104755.2	104456.9	103683.9	103219.4
97242.4	5°	97869.6	97788.3	98354.4	98540.9	98517.2	98218.8	97801.8	97334.0	96879.7
87085.2	7.5°	87627.7	87732.8	88248.1	88577.0	88410.8	88037.9	87749.7	87397.1	87092.0
76039.8	10°	76734.8	76012.7	76653.5	76653.5	77097.6	76043.2	76141.5	75253.3	75294.0
63346.7	12.5°	63563.7	63824.8	63929.9	64231.6	63712.9	63153.5	62468.7	62333.1	61909.3
47344.8	15°	48026.2	48772.1	48131.3	49226.4	48697.5	48114.4	48009.3	46958.3	47290.5
34339.8	17.5°	34170.3	34994.1	35251.8	35879.0	35397.6	35051.8	34614.4	34295.7	34272.0
24040.2	20°	24230.1	25057.3	25247.2	25999.8	25945.6	25837.1	25467.5	25064.1	24626.7
16364.7	22.5°	16612.2	17286.9	17917.4	18931.1	18914.2	18595.5	18558.2	17988.6	17998.8
11055.6	25°	11170.9	11662.4	11811.6	12849.0	12964.3	12930.4	12737.2	12208.3	12408.3
6753.4	27.5°	6760.2	7190.7	7695.9	8062.0	8407.8	8353.6	8160.3	7865.4	7736.5
4058.1	30°	4166.6	4359.9	4546.3	4987.1	5193.9	5302.3	5210.8	4936.2	4956.5
2671.5	32.5°	2729.1	2891.9	3027.5	3305.5	3414.0	3614.0	3576.7	3519.1	3451.3
1922.3	35°	1990.1	2108.7	2200.3	2329.1	2468.1	2637.6	2664.7	2641.0	2613.9
1484.9	37.5°	1518.8	1640.9	1746.0	1800.2	1908.7	2040.9	2115.5	2112.1	2091.8
1210.3	40°	1234.0	1325.6	1420.5	1491.7	1566.3	1664.6	1756.1	1766.3	1766.3
1017.1	42.5°	1030.6	1108.6	1203.5	1278.1	1332.4	1423.9	1518.8	1525.6	1518.8
861.1	45°	881.5	949.3	1040.8	1129.0	1173.0	1240.8	1332.4	1352.7	1339.1
739.1	47.5°	766.2	827.2	905.2	1000.1	1047.6	1108.6	1193.4	1217.1	1213.7
637.4	50°	657.7	728.9	806.9	884.9	945.9	1003.5	1084.9	1112.0	1101.8
542.4	52.5°	579.7	644.1	712.0	796.7	867.9	918.8	983.2	1030.6	1017.1
457.7	55°	484.8	562.8	634.0	705.2	793.3	847.6	908.6	966.2	952.7
386.5	57.5°	420.4	484.8	566.2	630.6	718.7	783.1	844.2	905.2	901.8
315.3	60°	352.6	420.4	498.4	566.2	647.5	718.7	779.8	847.6	854.3
237.3	62.5°	278.0	359.4	427.2	505.1	586.5	664.5	718.7	786.5	796.7
179.7	65°	210.2	295.0	369.5	444.1	525.5	610.2	657.7	715.3	725.5
132.2	67.5°	156.0	227.1	315.3	383.1	467.9	549.2	593.3	640.8	657.7
81.4	70°	118.7	172.9	264.4	328.9	417.0	481.4	528.9	569.6	583.1
54.2	72.5°	74.6	135.6	213.6	281.4	359.4	417.0	450.9	474.6	495.0
30.5	75°	50.9	105.1	172.9	240.7	298.3	342.4	372.9	393.3	410.2
13.6	77.5°	30.5	81.4	142.4	200.0	237.3	271.2	301.7	315.3	325.5
10.2	80°	17.0	61.0	118.7	162.7	186.5	210.2	233.9	250.9	257.7
6.8	82.5°	10.2	47.5	94.9	125.4	135.6	159.3	183.1	193.2	193.2
3.4	85°	6.8	33.9	64.4	91.5	98.3	115.3	122.0	128.8	135.6
3.4	87.5°	6.8	20.3	40.7	50.9	54.2	61.0	64.4	71.2	78.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
106372.4
102877.0
96371.1
86058.0
74897.3
61522.8
46958.3
33641.4
24436.9
17802.2
12093.0
7624.7
4868.4
3427.5
2603.7
2081.6
1746.0
1512.0
1339.1
1206.9
1095.0
1013.7
959.4
905.2
857.7
803.5
735.7
664.5
589.9
491.6
406.8
322.1
250.9
189.9
132.2
74.6
0.0

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