

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: P637243

Luminaire Tested: **IFLD-S-SA6D-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36130.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

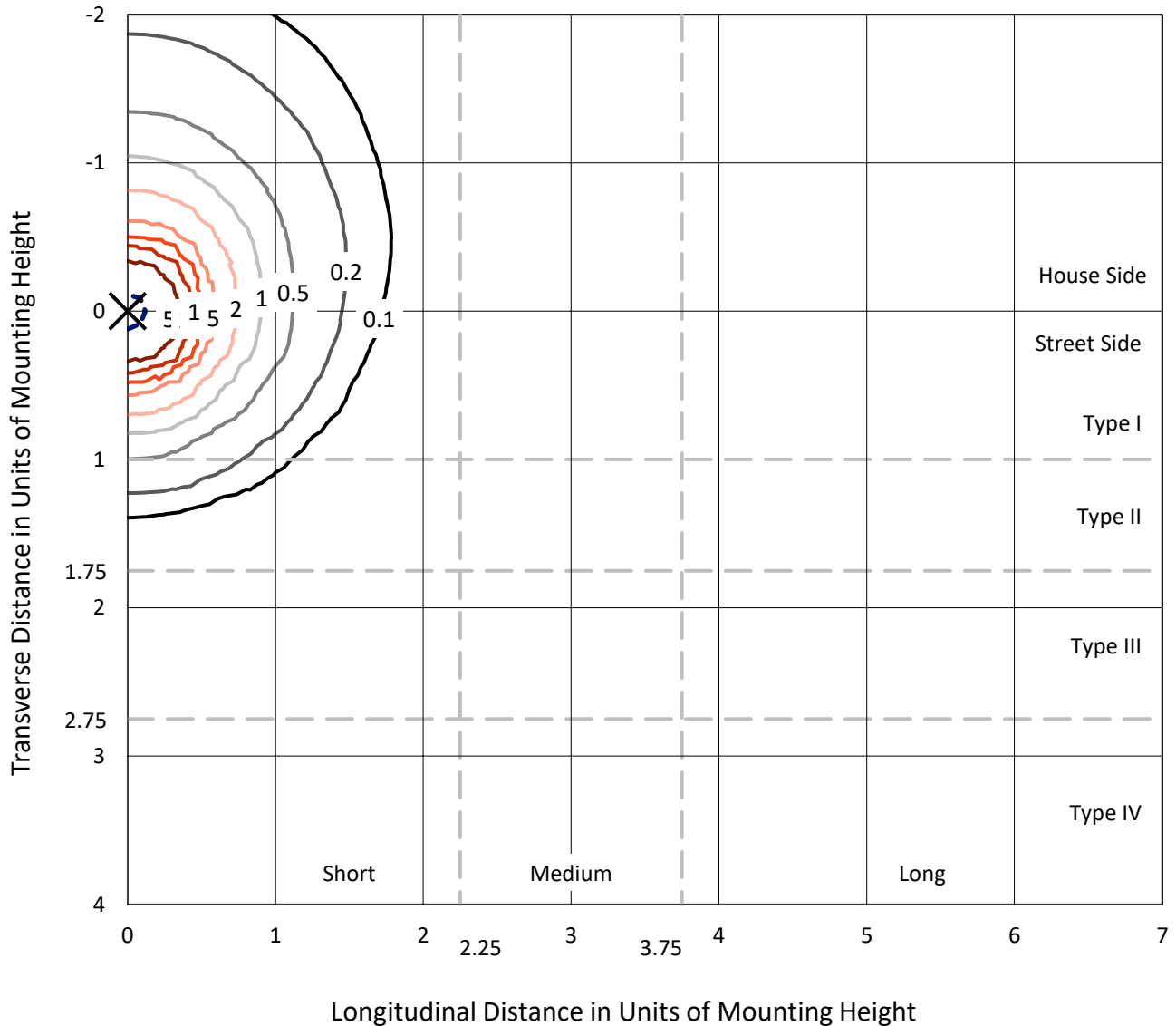
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

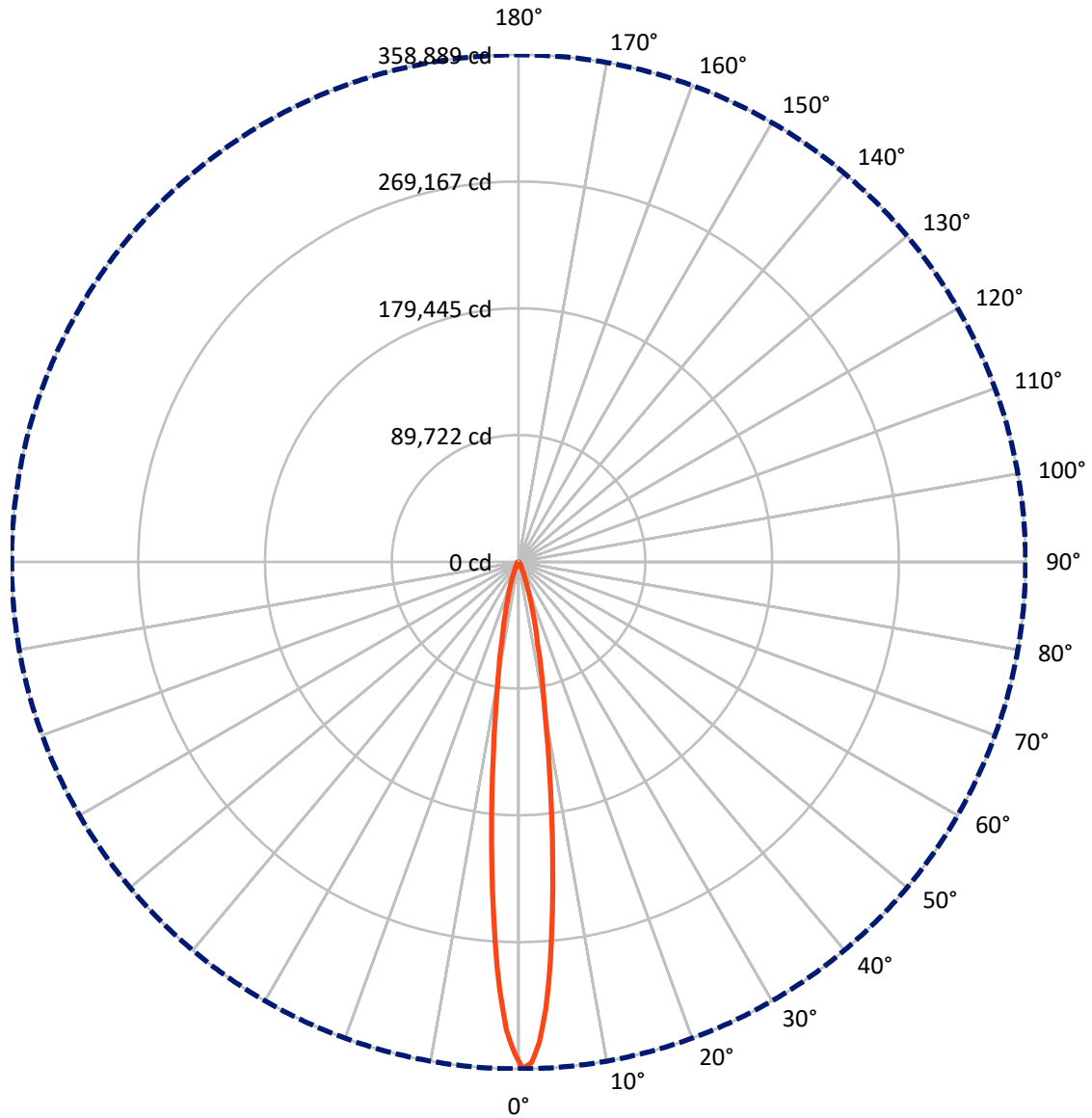
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 897.2 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	18505.2	0.0	18505.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17624.9	0.0	17624.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	36130.1	0.0	36130.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18239.6	50.5
10°-20°	11676.9	32.3
20°-30°	3509.8	9.7
30°-40°	1142.8	3.2
40°-50°	664.9	1.8
50°-60°	441.7	1.2
60°-70°	265.8	0.7
70°-80°	136.6	0.4
80°-90°	51.9	0.1
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°	36130.1	100.0
0°-180°	36130.1	100.0

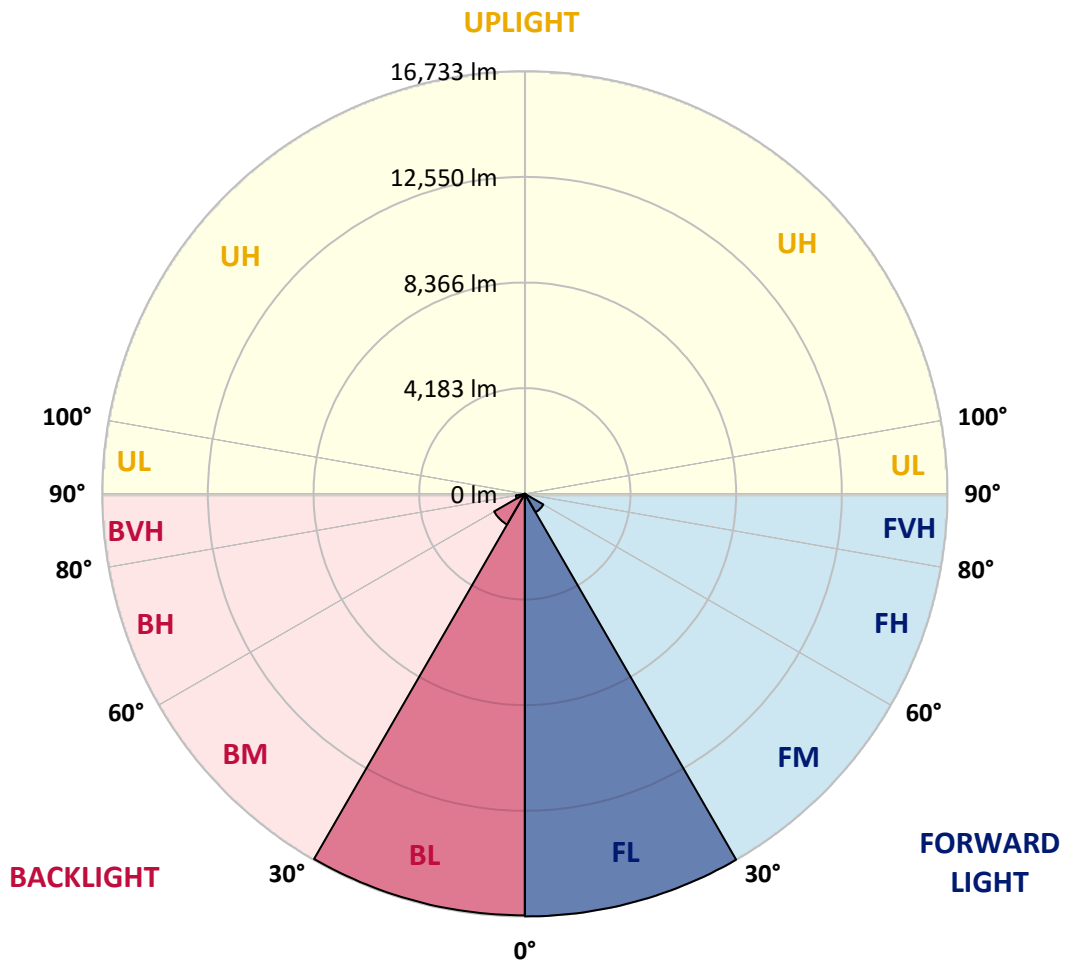


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16733.0	46.3			
FM (30°-60°)	844.4	2.3			
FH (60°-80°)	39.7	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16693.3	46.2	B5		
BM (30°-60°)	1405.0	3.9	B2/2500		
BH (60°-80°)	362.8	1.0	B1/500		G0/660
BVH (80°-90°)	44.1	0.1			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°	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0
1°	354591.8	353509.6	350715.7	352702.9	354450.1	353942.5	353907.1	353718.2	353454.5	355524.4
2°	340417.4	339716.9	335585.0	337289.0	339772.0	337961.9	339095.2	338099.6	338119.3	340590.5
3°	316523.2	316904.9	310313.6	313410.5	316861.6	312473.9	313835.5	316393.3	313713.5	312906.8
4°	285467.1	282153.7	278553.0	281701.1	282594.4	280040.5	282551.1	285683.5	281960.8	282126.1
5°	250011.4	247563.8	243302.0	245246.0	243030.5	243837.2	247599.2	248889.9	246292.7	243022.6
6°	213556.3	211816.9	206488.7	209290.6	208503.5	208047.1	212796.8	208861.6	210278.3	208298.9
7°	177636.3	174385.9	171769.0	174452.7	174625.9	173252.5	179418.9	178702.7	176125.2	175527.0
8°	147174.3	143931.8	141716.3	143715.3	145021.8	142865.4	145765.6	147670.2	145655.4	145836.4
9°	118703.6	118133.0	115051.8	117664.7	119085.3	116775.4	119986.4	120675.1	118790.2	119707.0
10°	97465.6	96800.6	94341.1	95399.7	97752.9	94998.3	98079.5	98303.8	96800.6	97229.5
12.5°	60231.3	59963.7	59896.8	60050.3	60018.8	60506.8	61293.8	60396.6	60278.5	58795.0
15°	38930.4	39327.8	38918.6	39705.6	39819.7	40280.1	39800.0	39076.0	37694.7	37010.0
17.5°	24295.6	24803.2	25503.7	26656.7	27809.7	27943.4	27306.0	26456.0	25787.0	25055.1
20°	13977.6	14225.5	14119.3	15500.5	18483.4	19294.0	18471.6	17578.3	16771.6	16031.8
22.5°	8684.9	8594.4	8759.6	9224.0	10196.0	12702.6	12029.7	11136.5	10550.1	9940.2
25°	5324.2	5422.6	5359.7	5615.4	6052.2	7114.7	7268.2	6882.6	6583.5	6268.7
27.5°	3427.5	3427.5	3455.1	3596.7	3895.8	3860.4	4678.9	4379.8	4218.5	4065.0
30°	2380.8	2388.6	2388.6	2471.3	2538.2	2420.1	2632.6	3018.3	2943.5	2825.4
32.5°	1766.9	1790.5	1810.2	1853.5	1798.4	1672.4	1723.6	2172.2	2128.9	2085.6
35°	1345.8	1365.5	1412.7	1436.3	1357.6	1278.9	1231.7	1597.7	1617.3	1605.5
37.5°	979.9	991.7	1078.2	1168.7	1078.2	1007.4	979.9	1227.8	1322.2	1310.4
40°	751.6	755.5	771.3	873.6	873.6	818.5	826.4	916.9	1082.2	1082.2
42.5°	645.4	645.4	661.1	645.4	649.3	708.3	728.0	739.8	916.9	916.9
45°	558.8	558.8	566.7	527.3	488.0	609.9	625.7	629.6	771.3	791.0
47.5°	468.3	468.3	484.0	432.9	413.2	484.0	527.3	539.1	665.0	680.8
50°	346.3	350.2	397.4	354.2	366.0	373.8	456.5	464.3	562.7	598.1
52.5°	232.2	232.2	240.0	275.5	318.7	306.9	369.9	397.4	448.6	495.8
55°	188.9	188.9	185.0	177.1	236.1	255.8	271.5	330.6	366.0	425.0
57.5°	129.9	137.7	125.9	145.6	153.5	192.8	204.6	259.7	279.4	358.1
60°	15.7	19.7	27.5	106.2	102.3	129.9	153.5	204.6	228.2	275.5
62.5°	3.9	3.9	7.9	19.7	70.8	86.6	122.0	141.7	165.3	212.5
65°	0.0	0.0	3.9	7.9	15.7	47.2	63.0	82.6	118.1	149.5
67.5°	0.0	0.0	3.9	7.9	7.9	19.7	31.5	51.2	63.0	110.2
70°	0.0	0.0	3.9	7.9	7.9	15.7	19.7	23.6	43.3	59.0
72.5°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	19.7	19.7	39.4
75°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	19.7	15.7	15.7
77.5°	0.0	0.0	3.9	7.9	15.7	19.7	23.6	19.7	11.8	11.8
80°	0.0	0.0	3.9	11.8	19.7	27.5	31.5	23.6	11.8	7.9
82.5°	0.0	0.0	7.9	15.7	23.6	31.5	43.3	35.4	15.7	7.9
85°	0.0	0.0	3.9	11.8	23.6	31.5	63.0	43.3	19.7	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.9	23.6	15.7	7.9	3.9
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°
358889.0	0°	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0	358889.0
353135.8	1°	355603.1	355851.0	355040.4	356295.7	355855.0	353273.5	352419.6	351408.2
339138.5	2°	338099.6	339362.8	339425.7	340818.8	340799.1	337788.7	336856.1	338575.7
314543.8	3°	313591.5	315063.3	313737.1	316212.3	315468.6	311816.8	310868.4	312820.2
283432.6	4°	282586.5	282307.1	281850.7	280441.9	282177.3	279686.3	277809.3	280457.6
247359.1	5°	246863.3	246241.6	245352.2	244935.1	246225.8	244632.1	240771.7	244640.0
211879.9	6°	212139.6	209463.7	209333.9	209101.7	209231.5	204769.1	205036.7	207917.2
173469.0	7°	175302.7	175794.6	174791.2	176400.6	175172.9	172150.7	170985.9	174019.9
146631.3	8°	145608.2	144986.4	144219.0	146623.4	144494.5	142511.2	141153.6	143550.1
119856.6	9°	119632.3	118558.0	117778.8	117656.8	117987.4	114264.7	115020.3	116834.4
97465.6	10°	97501.0	95738.1	96167.0	96281.1	95919.1	93479.3	93502.9	94128.6
59778.8	12.5°	59566.3	58700.5	58917.0	59035.0	59770.9	58913.0	57701.0	56827.4
37690.8	15°	37438.9	36817.2	38088.2	38942.2	38769.0	38005.6	37435.0	36644.0
25055.1	17.5°	24822.9	25637.5	25641.4	26420.5	26499.3	25735.8	25295.1	24582.8
16295.4	20°	16236.4	16574.8	17279.2	17830.1	18148.9	17566.5	17039.2	16551.2
10160.5	22.5°	10160.5	10750.8	11191.5	11907.7	12198.9	11773.9	11400.1	11002.7
6343.5	25°	6237.2	6658.3	7024.2	7646.0	8043.4	7838.8	7496.4	7217.1
4096.5	27.5°	4159.4	4336.5	4517.5	4946.5	5359.7	5245.5	5107.8	4938.6
2888.4	30°	2931.7	2947.4	3140.2	3380.3	3655.7	3726.6	3663.6	3577.0
2121.0	32.5°	2160.4	2223.4	2313.9	2463.4	2648.4	2817.6	2786.1	2746.7
1621.3	35°	1668.5	1762.9	1837.7	1951.8	2050.2	2211.6	2239.1	2227.3
1334.0	37.5°	1361.6	1444.2	1519.0	1585.9	1668.5	1778.7	1865.3	1869.2
1101.8	40°	1129.4	1204.2	1302.5	1353.7	1412.7	1495.4	1601.6	1609.5
932.6	42.5°	952.3	1023.1	1121.5	1184.5	1227.8	1306.5	1412.7	1428.5
798.8	45°	818.5	861.8	964.1	1038.9	1082.2	1133.3	1247.4	1263.2
688.6	47.5°	712.3	755.5	818.5	924.8	964.1	1011.3	1101.8	1129.4
609.9	50°	625.7	669.0	724.1	818.5	877.5	916.9	991.7	1031.0
531.2	52.5°	554.9	598.1	657.2	731.9	798.8	834.3	905.1	956.2
432.9	55°	464.3	539.1	582.4	649.3	739.8	771.3	826.4	893.3
377.8	57.5°	405.3	468.3	531.2	586.3	676.8	716.2	771.3	834.3
299.1	60°	342.4	401.4	476.2	523.4	609.9	661.1	720.1	779.2
228.2	62.5°	271.5	350.2	401.4	468.3	550.9	617.8	665.0	724.1
177.1	65°	200.7	287.3	346.3	417.1	495.8	566.7	606.0	669.0
125.9	67.5°	145.6	224.3	295.1	362.0	436.8	507.6	547.0	602.1
78.7	70°	114.1	165.3	244.0	303.0	381.7	440.7	484.0	519.4
51.2	72.5°	66.9	125.9	196.8	263.7	334.5	373.8	405.3	436.8
23.6	75°	43.3	98.4	161.3	220.4	271.5	306.9	334.5	362.0
11.8	77.5°	27.5	70.8	129.9	185.0	208.6	251.8	275.5	291.2
7.9	80°	15.7	55.1	114.1	149.5	169.2	196.8	220.4	240.0
7.9	82.5°	11.8	47.2	94.4	125.9	125.9	157.4	169.2	169.2
3.9	85°	7.9	39.4	74.8	118.1	94.4	118.1	110.2	110.2
3.9	87.5°	7.9	27.5	35.4	51.2	43.3	51.2	51.2	59.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
358889.0
347402.3
331291.8
304151.1
270871.6
234447.9
199566.8
165767.9
136706.9
111167.8
89870.8
56296.2
36238.7
24405.8
16382.0
10790.2
7055.7
4840.2
3518.0
2715.2
2187.9
1841.6
1597.7
1416.7
1259.2
1133.3
1034.9
956.2
897.2
838.2
794.9
751.6
680.8
606.0
531.2
444.7
362.0
283.3
216.4
157.4
106.2
59.0
0.0

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