

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: P637934

Luminaire Tested: **IFLD-S-SA3D-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637934
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20102.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

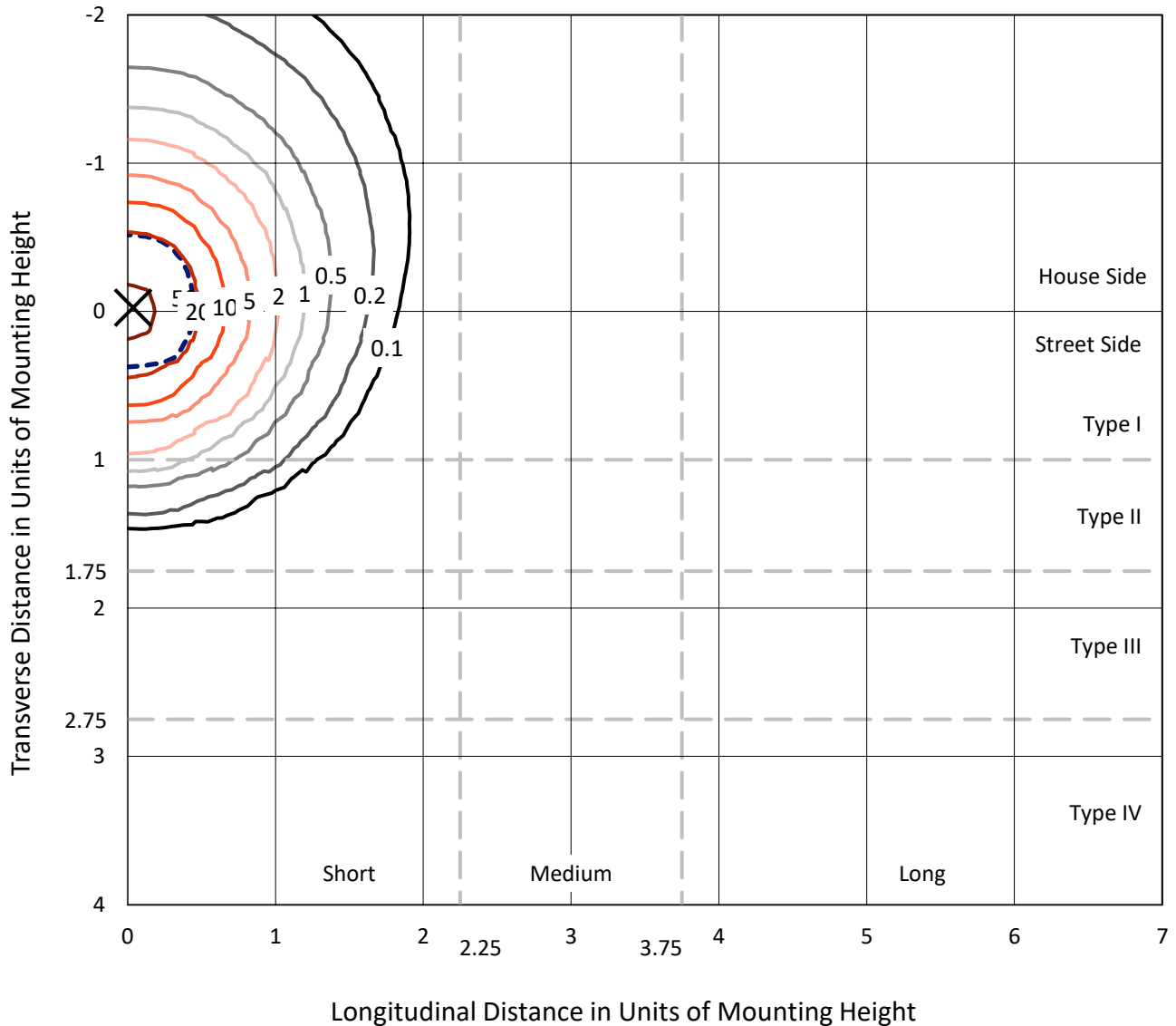
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

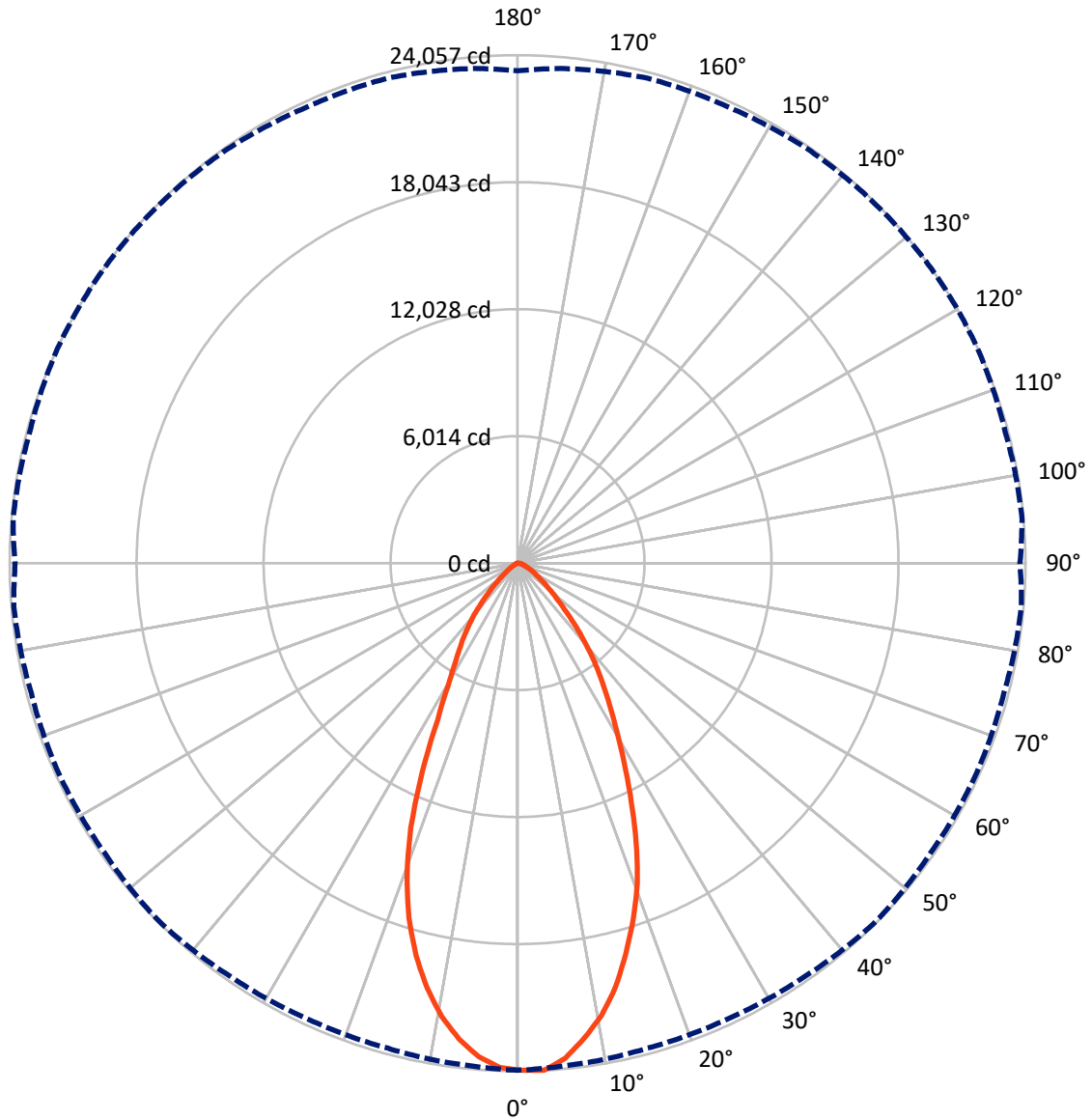
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60 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	11407.1	0.0	11407.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8695.7	0.0	8695.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	20102.8	0.0	20102.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2180.9	10.8
10°-20°	5198.8	25.9
20°-30°	5294.9	26.3
30°-40°	3948.4	19.6
40°-50°	2062.7	10.3
50°-60°	867.6	4.3
60°-70°	354.3	1.8
70°-80°	149.1	0.7
80°-90°	45.9	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°	20102.8	100.0
0°-180°	20102.8	100.0



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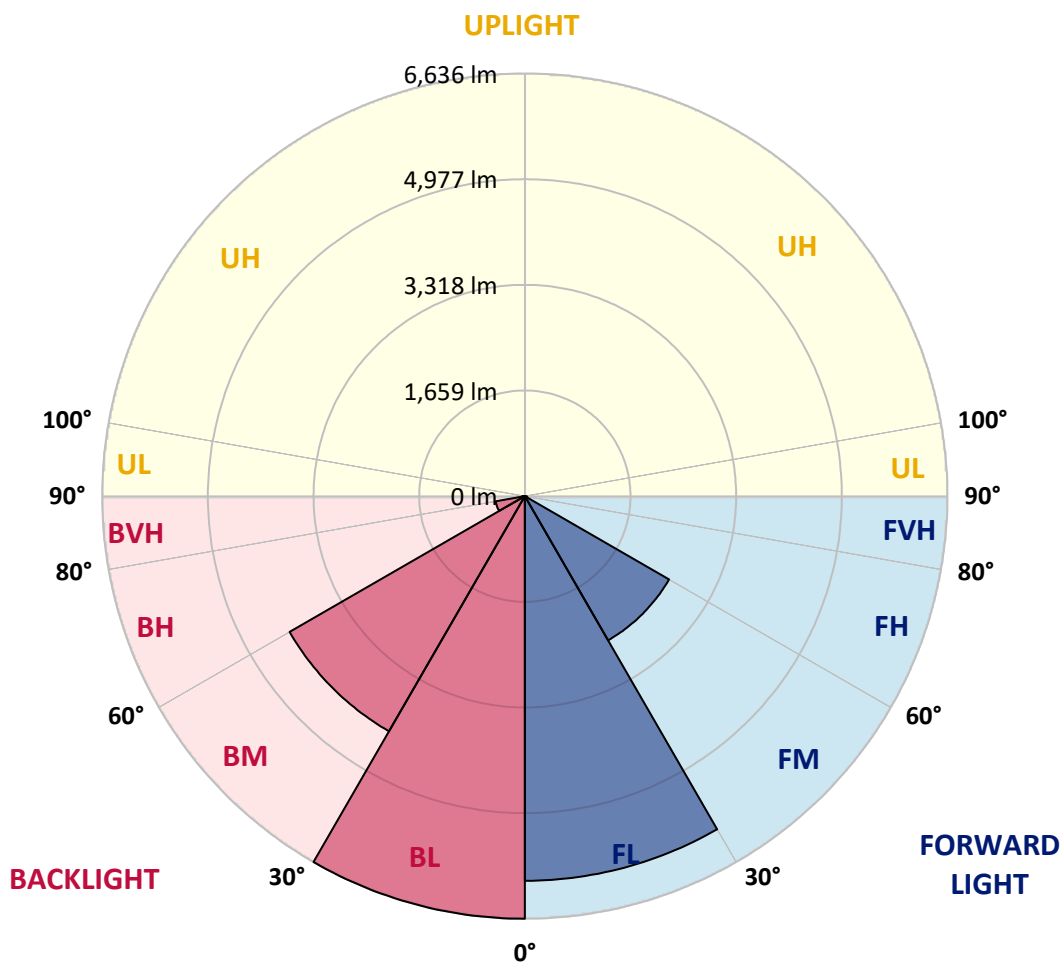
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6039.1	30.0			
FM (30°-60°)	2614.4	13.0			
FH (60°-80°)	37.8	0.2			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	6635.5	33.0	B5		
BM (30°-60°)	4264.3	21.2	B3/5000		
BH (60°-80°)	465.6	2.3	B1/500		G1/500
BVH (80°-90°)	41.7	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0
2.5°	24020.6	23922.4	23783.0	23770.1	23842.4	23999.9	23899.2	23904.4	23842.4	23948.3
5°	23643.6	23550.6	23455.0	23328.5	23434.4	23501.5	23449.9	23393.1	23313.0	23416.3
7.5°	22930.8	22879.2	22737.2	22680.4	22744.9	22819.8	22708.8	22693.3	22582.2	22716.5
10°	21841.1	21820.4	21681.0	21647.4	21704.2	21817.9	21768.8	21758.5	21688.7	21675.8
12.5°	20710.1	20630.0	20457.0	20446.7	20531.9	20702.3	20570.6	20444.1	20482.8	20516.4
15°	17797.2	17712.0	18140.7	18814.6	19168.4	19155.5	19194.2	19041.9	18995.4	19010.9
17.5°	14148.4	14003.8	14158.8	15202.0	16883.1	17859.2	17590.6	17262.7	17087.1	16970.9
20°	12211.7	12219.5	12191.0	12459.6	13508.0	15734.0	15669.4	15036.7	14806.9	14711.4
22.5°	11034.2	10990.3	10928.3	11013.5	11295.0	12601.6	13477.0	12896.0	12816.0	12710.1
25°	9879.9	9879.9	9805.0	9890.2	9970.3	9988.3	10866.3	11103.9	10949.0	10949.0
27.5°	8880.5	8828.9	8795.3	8834.1	8728.2	8219.5	8330.5	9546.8	9440.9	9376.3
30°	7888.9	7873.4	7816.6	7868.3	7475.8	6902.5	6670.1	8056.8	8167.8	8144.6
32.5°	6512.6	6574.5	6827.6	6907.7	6236.3	5774.0	5551.9	6688.2	7132.3	7114.2
35°	4426.1	4477.7	4766.9	5722.4	5169.8	4839.2	4774.7	5319.5	6050.3	6120.1
37.5°	3524.8	3517.1	3599.7	3770.2	4154.9	4074.9	4056.8	4198.8	4934.8	4965.8
40°	2905.1	2894.8	2892.2	2752.7	2657.2	3388.0	3338.9	3253.7	3891.5	3953.5
42.5°	2342.1	2352.5	2360.2	2055.5	1916.1	2613.3	2584.9	2497.1	3052.3	3124.6
45°	1838.6	1836.0	1851.5	1531.3	1492.6	1670.7	1931.6	1861.8	2303.4	2380.9
47.5°	952.9	986.4	1195.6	1185.3	1203.4	1185.3	1461.6	1443.5	1732.7	1856.7
50°	640.4	650.7	668.8	671.4	947.7	872.8	991.6	1123.3	1213.7	1404.8
52.5°	495.8	503.5	457.1	428.7	581.0	645.6	650.7	777.3	847.0	1040.7
55°	276.3	309.9	333.1	335.7	320.2	477.7	475.1	575.9	630.1	759.2
57.5°	36.2	43.9	67.1	216.9	214.3	266.0	333.1	418.3	449.3	555.2
60°	2.6	5.2	7.7	33.6	142.0	154.9	227.2	260.8	312.5	389.9
62.5°	0.0	0.0	2.6	7.7	28.4	90.4	118.8	136.9	183.3	255.6
65°	0.0	0.0	2.6	5.2	10.3	33.6	46.5	74.9	108.5	157.5
67.5°	0.0	0.0	2.6	5.2	7.7	12.9	20.7	33.6	56.8	95.5
70°	0.0	0.0	2.6	5.2	7.7	10.3	15.5	20.7	31.0	51.6
72.5°	0.0	0.0	2.6	2.6	5.2	12.9	12.9	15.5	20.7	28.4
75°	0.0	0.0	2.6	5.2	7.7	12.9	12.9	12.9	15.5	18.1
77.5°	0.0	0.0	2.6	5.2	7.7	12.9	10.3	12.9	12.9	12.9
80°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	12.9	10.3	10.3
82.5°	0.0	0.0	2.6	7.7	7.7	18.1	18.1	18.1	7.7	7.7
85°	0.0	0.0	5.2	7.7	12.9	20.7	20.7	15.5	7.7	5.2
87.5°	0.0	0.0	2.6	5.2	5.2	10.3	15.5	12.9	5.2	2.6
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°
24018.0	0°	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0	24018.0
23793.3	2.5°	23984.4	23919.9	24041.2	24056.7	24005.1	23940.5	23790.7	23777.8	23517.0
23266.5	5°	23529.9	23424.1	23501.5	23553.2	23535.1	23465.4	23403.4	23346.6	23111.6
22411.8	7.5°	22682.9	22644.2	22680.4	22719.1	22794.0	22719.1	22693.3	22633.9	22401.5
21570.0	10°	21743.0	21670.7	21807.5	21789.5	21768.8	21748.1	21639.7	21650.0	21376.3
20423.4	12.5°	20588.7	20467.3	20599.0	20614.5	20599.0	20526.7	20405.3	20457.0	20206.5
18874.0	15°	19036.7	19023.8	19119.4	19181.3	19225.2	19147.8	19106.4	19132.3	18982.5
16880.5	17.5°	17131.0	17298.8	17611.3	17717.2	17719.8	17799.8	17776.6	17745.6	17634.5
14672.6	20°	14889.5	15212.3	15692.6	16185.9	16327.9	16260.8	16229.8	16286.6	16121.3
12599.0	22.5°	12821.1	13097.4	13655.2	14375.7	14791.4	14832.7	14825.0	14775.9	14711.4
10938.6	25°	11065.2	11310.5	11845.0	12503.5	13301.4	13420.2	13425.4	13409.9	13353.1
9433.1	27.5°	9582.9	9879.9	10174.3	10763.0	11612.6	12103.2	12041.3	12023.2	12002.5
8162.7	30°	8240.1	8614.6	8890.9	9257.6	10019.3	10683.0	10747.5	10716.6	10667.5
7111.7	32.5°	7176.2	7398.3	7749.5	7997.4	8544.8	9296.3	9544.2	9520.9	9477.0
6164.0	35°	6251.8	6339.5	6615.9	6892.2	7256.3	7984.5	8351.2	8299.5	8291.8
5022.6	37.5°	5149.1	5443.5	5595.8	5874.7	6130.4	6695.9	7202.0	7178.8	7181.4
4038.7	40°	4157.5	4327.9	4630.1	4865.1	5100.0	5513.2	6076.2	6091.6	6086.5
3127.2	42.5°	3191.7	3357.0	3674.6	3930.3	4139.4	4395.1	4932.2	4950.3	4973.5
2435.1	45°	2491.9	2597.8	2830.2	3096.2	3318.3	3473.2	3881.2	3997.4	4000.0
1887.7	47.5°	1934.1	2055.5	2220.8	2476.4	2693.3	2804.4	3101.3	3258.9	3251.1
1448.7	50°	1518.4	1629.4	1763.7	1965.1	2200.1	2287.9	2507.4	2662.4	2654.6
1092.3	52.5°	1162.0	1304.1	1422.8	1577.8	1807.6	1882.5	2040.0	2218.2	2192.4
800.5	55°	880.6	1025.2	1136.2	1265.3	1474.5	1570.0	1678.5	1820.5	1825.7
619.8	57.5°	663.7	813.4	914.1	1045.8	1203.4	1309.2	1391.9	1544.2	1541.6
423.5	60°	475.1	604.3	725.6	862.5	983.9	1105.2	1162.0	1306.6	1311.8
299.5	62.5°	343.4	464.8	581.0	699.8	808.3	927.0	978.7	1092.3	1107.8
196.3	65°	240.2	325.4	459.6	550.0	671.4	759.2	826.3	924.5	942.5
116.2	67.5°	154.9	235.0	364.1	444.2	555.2	630.1	699.8	777.3	800.5
74.9	70°	93.0	178.2	271.1	356.4	457.1	524.2	591.3	658.5	671.4
36.2	72.5°	59.4	124.0	196.3	289.2	366.7	439.0	498.4	547.4	508.7
23.2	75°	33.6	85.2	154.9	227.2	297.0	366.7	415.8	441.6	353.8
15.5	77.5°	20.7	62.0	126.5	183.3	229.8	294.4	325.4	340.9	253.1
10.3	80°	12.9	46.5	105.9	149.8	149.8	216.9	253.1	266.0	183.3
7.7	82.5°	10.3	33.6	82.6	113.6	100.7	162.7	198.8	201.4	129.1
5.2	85°	7.7	25.8	51.6	74.9	69.7	113.6	116.2	129.1	85.2
5.2	87.5°	5.2	15.5	31.0	43.9	38.7	54.2	62.0	69.7	46.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24018.0
23313.0
22923.1
22352.4
21283.3
20134.2
18801.7
17469.3
16002.5
14587.4
13162.0
11881.2
10605.5
9360.8
8206.6
7098.7
5996.1
4896.0
3932.8
3222.7
2654.6
2195.0
1825.7
1536.5
1298.9
1102.6
937.4
797.9
661.1
472.6
335.7
237.6
170.4
118.8
77.5
41.3
0.0

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