

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: P638271

Luminaire Tested: **IFLD-L-SA8B-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638271
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23012.1 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

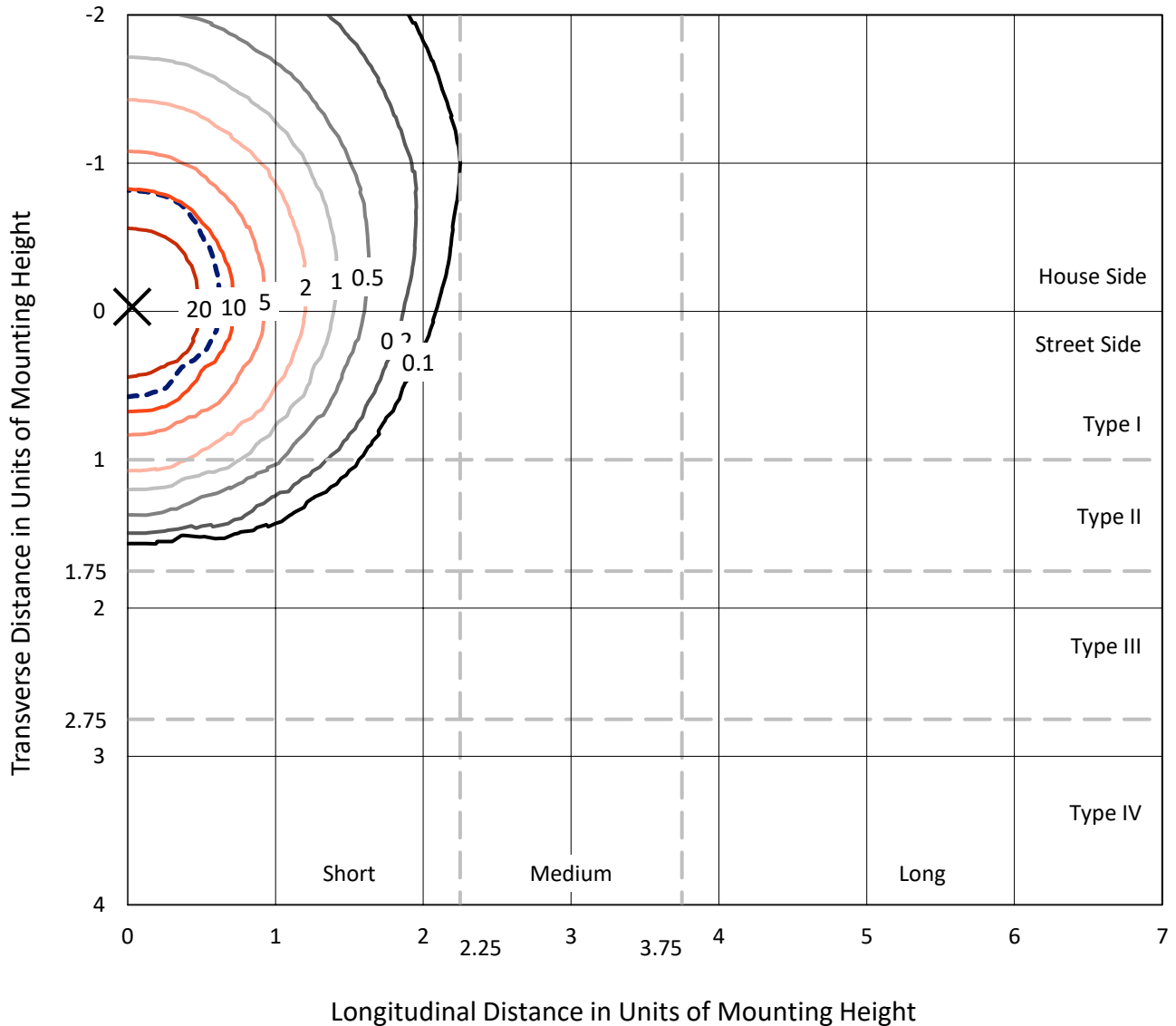
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

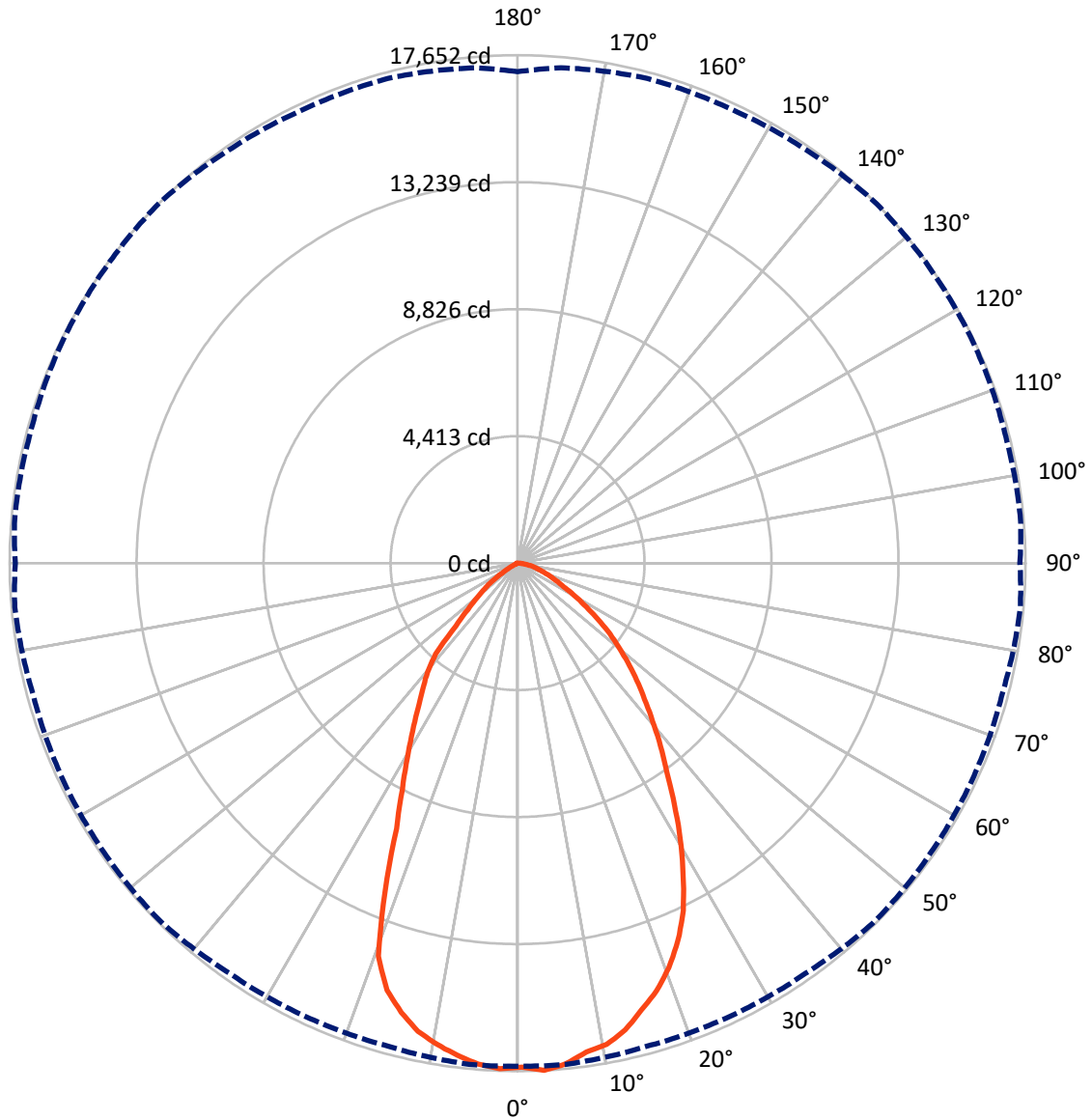
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13629.0	0.0	13629.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9383.2	0.0	9383.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	23012.1	0.0	23012.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1642.4	7.1
10°-20°	4404.1	19.1
20°-30°	5371.0	23.3
30°-40°	4903.7	21.3
40°-50°	3543.8	15.4
50°-60°	1934.9	8.4
60°-70°	800.0	3.5
70°-80°	324.0	1.4
80°-90°	88.1	0.4
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°	23012.1	100.0
0°-180°	23012.1	100.0



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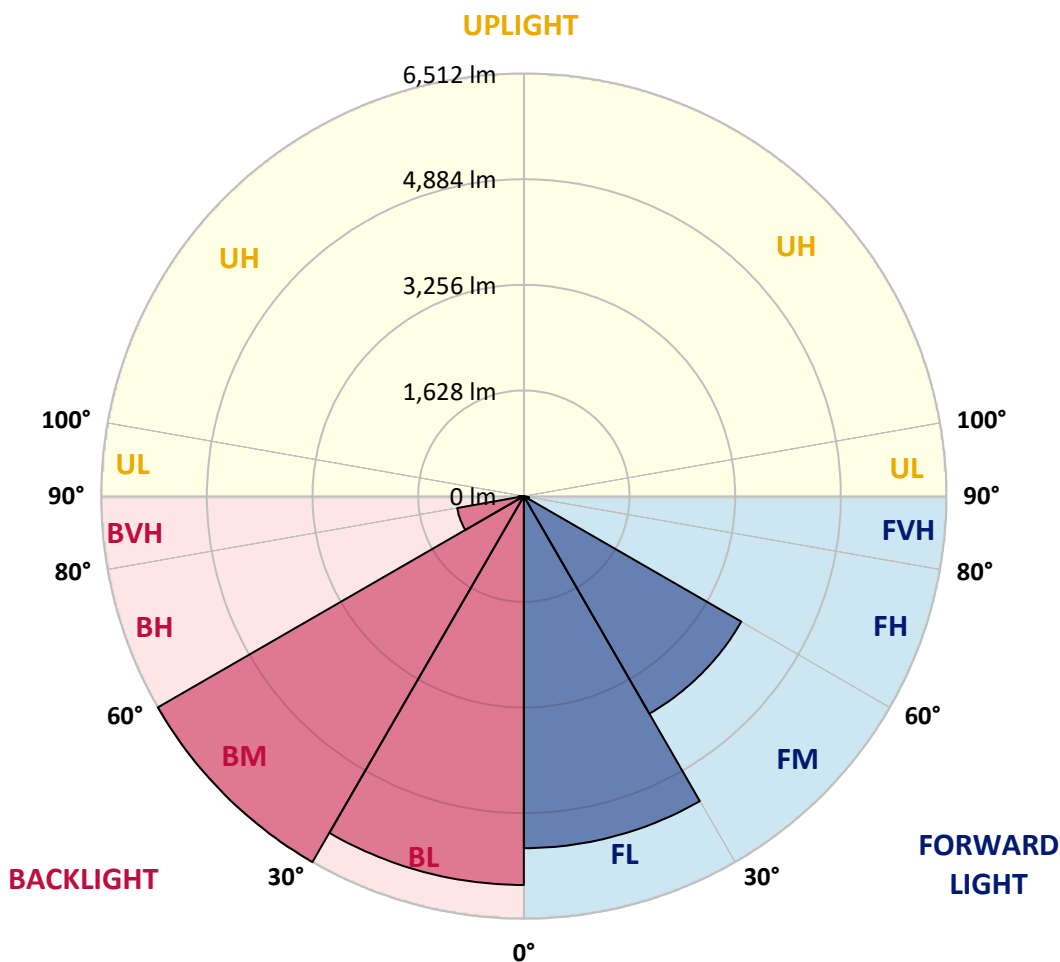
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5424.8	23.6			
FM (30°-60°)	3870.2	16.8			
FH (60°-80°)	81.1	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	5992.7	26.0	B5		
BM (30°-60°)	6512.2	28.3	B4/8500		
BH (60°-80°)	1043.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	81.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2
2.5°	17479.8	17502.5	17379.3	17392.3	17415.0	17580.2	17538.1	17499.2	17444.1	17538.1
5°	17457.1	17470.0	17340.4	17295.1	17314.5	17463.6	17327.5	17327.5	17314.5	17298.3
7.5°	17282.1	17288.6	17188.1	17107.1	17158.9	17227.0	17126.5	17175.2	17103.9	17158.9
10°	17019.6	16977.5	16857.6	16834.9	16893.2	16958.0	16890.0	16935.3	16870.5	16912.7
12.5°	16634.0	16569.2	16471.9	16442.8	16543.2	16630.7	16575.6	16549.7	16465.5	16569.2
15°	15146.5	15097.9	15318.3	15703.9	16050.7	16125.2	16066.9	16092.8	15917.8	15947.0
17.5°	12466.6	12375.8	12612.4	13526.2	14829.0	15516.0	15464.1	15295.6	15036.4	15094.7
20°	11329.1	11303.2	11277.3	11494.4	12405.0	14488.7	14560.0	14132.2	13762.8	13681.8
22.5°	10687.5	10677.8	10651.8	10700.4	10940.2	12278.6	13095.2	12699.9	12453.6	12430.9
25°	10100.9	10084.7	10007.0	10068.5	10068.5	10146.3	11193.0	11432.8	11215.7	11189.8
27.5°	9504.7	9475.5	9462.5	9491.7	9342.6	8817.7	9083.4	10253.2	10139.8	10146.3
30°	8859.8	8850.1	8814.4	8876.0	8415.8	7764.5	7596.0	9183.8	9206.5	9200.0
32.5°	7900.6	7942.7	8104.7	8172.8	7414.5	6876.5	6594.6	7945.9	8409.3	8399.6
35°	5739.1	5739.1	6267.3	7249.2	6497.4	6092.3	5940.0	6737.2	7621.9	7654.3
37.5°	4718.3	4734.5	4838.2	5285.4	5606.2	5463.6	5418.3	5671.0	6610.8	6662.7
40°	4245.2	4245.2	4245.2	4060.5	4050.7	4922.5	4896.5	4815.5	5709.9	5823.3
42.5°	3814.2	3823.9	3830.4	3363.7	3104.5	4254.9	4196.6	4073.4	4903.0	5035.9
45°	3370.2	3386.4	3405.9	2812.8	2699.4	3062.4	3551.7	3415.6	4105.8	4277.6
47.5°	2057.8	2083.7	2524.4	2385.1	2398.0	2362.4	2897.1	2874.4	3367.0	3610.0
50°	1390.2	1399.9	1442.1	1513.4	2057.8	1856.9	2051.3	2378.6	2556.8	2926.3
52.5°	1166.6	1182.8	1079.1	981.9	1351.3	1451.8	1432.3	1766.1	1837.4	2294.3
55°	819.9	871.7	823.1	813.4	768.0	1127.7	1085.6	1357.8	1403.2	1743.4
57.5°	84.3	97.2	168.5	606.0	502.3	638.4	774.5	994.9	1040.2	1286.5
60°	6.5	6.5	16.2	84.3	366.2	382.4	534.7	612.5	700.0	897.6
62.5°	0.0	3.2	6.5	13.0	58.3	204.2	269.0	320.8	421.3	580.1
65°	0.0	0.0	3.2	9.7	13.0	77.8	103.7	168.5	230.1	359.7
67.5°	0.0	0.0	3.2	6.5	9.7	19.4	35.6	61.6	123.1	204.2
70°	0.0	0.0	3.2	6.5	9.7	16.2	25.9	38.9	55.1	110.2
72.5°	0.0	0.0	3.2	3.2	6.5	16.2	19.4	25.9	38.9	55.1
75°	0.0	0.0	3.2	3.2	9.7	19.4	16.2	19.4	25.9	35.6
77.5°	0.0	0.0	3.2	6.5	9.7	19.4	16.2	19.4	19.4	22.7
80°	0.0	0.0	3.2	6.5	13.0	22.7	19.4	19.4	16.2	16.2
82.5°	0.0	0.0	3.2	9.7	13.0	29.2	29.2	25.9	13.0	9.7
85°	0.0	0.0	6.5	13.0	19.4	32.4	32.4	25.9	9.7	6.5
87.5°	0.0	0.0	6.5	9.7	16.2	22.7	32.4	25.9	9.7	3.2
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°
17512.2	0°	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2	17512.2
17457.1	2.5°	17544.6	17525.1	17589.9	17615.9	17651.5	17515.4	17431.2	17434.4	17278.9
17259.4	5°	17363.1	17366.3	17450.6	17444.1	17479.8	17405.2	17372.8	17317.7	17181.6
17009.9	7.5°	17133.0	17103.9	17184.9	17246.4	17155.7	17207.6	17133.0	17158.9	17077.9
16789.5	10°	16954.8	16886.7	16961.3	17003.4	17006.6	16954.8	16883.5	16815.4	16786.3
16446.0	12.5°	16559.4	16471.9	16598.3	16656.7	16646.9	16546.5	16465.5	16481.7	16387.7
15843.3	15°	16015.0	16018.3	16109.0	16164.1	16112.2	16089.6	16096.0	16057.1	15976.1
15010.4	17.5°	15182.2	15230.8	15470.6	15603.5	15632.6	15587.3	15564.6	15519.2	15438.2
13681.8	20°	13795.2	14086.9	14514.6	14926.2	15007.2	14994.2	14913.2	14893.8	14848.4
12366.1	22.5°	12576.7	12793.9	13289.7	13931.3	14261.9	14294.3	14197.0	14167.9	14119.3
11189.8	25°	11316.2	11549.5	11996.7	12693.4	13377.2	13516.5	13500.3	13412.8	13361.0
10146.3	27.5°	10253.2	10486.6	10891.6	11520.3	12252.7	12699.9	12742.0	12602.7	12599.4
9216.3	30°	9294.0	9614.8	9922.7	10434.7	11144.4	11815.2	11886.5	11789.3	11799.0
8364.0	32.5°	8542.2	8807.9	9070.4	9413.9	10003.7	10784.7	11063.4	10972.7	10937.0
7654.3	35°	7774.2	7955.7	8224.6	8539.0	8940.8	9715.3	10198.2	10130.1	10094.5
6695.1	37.5°	6899.2	7210.3	7404.8	7758.0	8072.3	8688.0	9368.6	9358.8	9284.3
5878.4	40°	6001.6	6328.9	6623.8	6980.2	7223.3	7712.6	8467.7	8464.4	8474.2
5032.6	42.5°	5188.2	5489.6	5846.0	6234.9	6468.2	6824.7	7634.8	7680.2	7735.3
4335.9	45°	4452.6	4724.8	5055.3	5528.5	5810.4	6014.5	6734.0	6941.4	6938.1
3713.7	47.5°	3791.5	4047.5	4326.2	4786.4	5146.1	5330.8	5927.0	6221.9	6202.5
3046.2	50°	3182.3	3409.1	3700.8	4034.5	4517.4	4679.4	5123.4	5512.3	5483.1
2427.2	52.5°	2560.1	2874.4	3120.7	3425.3	3934.1	4092.9	4436.4	4815.5	4792.8
1821.2	55°	1996.2	2300.8	2599.0	2861.4	3289.2	3525.8	3772.1	4160.9	4154.4
1425.9	57.5°	1510.1	1843.9	2125.8	2375.4	2715.6	3007.3	3204.9	3558.2	3603.5
975.4	60°	1118.0	1374.0	1678.6	1957.3	2226.3	2527.7	2660.5	3007.3	3026.7
667.6	62.5°	761.5	1043.5	1341.6	1594.4	1795.3	2106.4	2226.3	2511.5	2547.1
427.8	65°	528.2	709.7	1050.0	1231.4	1477.7	1743.4	1863.3	2090.2	2161.5
246.3	67.5°	350.0	505.5	819.9	985.1	1228.2	1409.7	1562.0	1746.7	1824.5
155.5	70°	191.2	372.7	586.5	777.7	988.4	1163.4	1312.4	1461.5	1529.6
71.3	72.5°	129.6	249.5	408.3	615.7	797.2	968.9	1101.8	1212.0	1215.2
42.1	75°	64.8	168.5	311.1	476.4	622.2	790.7	910.6	975.4	897.6
25.9	77.5°	38.9	123.1	252.8	382.4	505.5	638.4	706.4	742.1	615.7
19.4	80°	22.7	87.5	197.7	304.6	350.0	469.9	534.7	544.4	411.6
13.0	82.5°	16.2	64.8	155.5	223.6	213.9	330.5	401.8	388.9	262.5
9.7	85°	9.7	45.4	97.2	139.3	129.6	217.1	233.3	239.8	152.3
6.5	87.5°	6.5	25.9	51.8	74.5	61.6	94.0	94.0	113.4	74.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17512.2
17077.9
17149.2
16941.8
16656.7
16306.7
15895.1
15402.5
14744.7
14106.3
13305.9
12593.0
11750.4
10940.2
10045.8
9345.9
8474.2
7706.1
6944.6
6209.0
5509.0
4841.4
4170.6
3584.1
3055.9
2553.6
2145.3
1814.7
1503.6
1186.1
839.3
593.0
385.6
243.0
139.3
64.8
0.0

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