

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: P637858

Luminaire Tested: **IFLD-M-SA4E-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27798.9 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

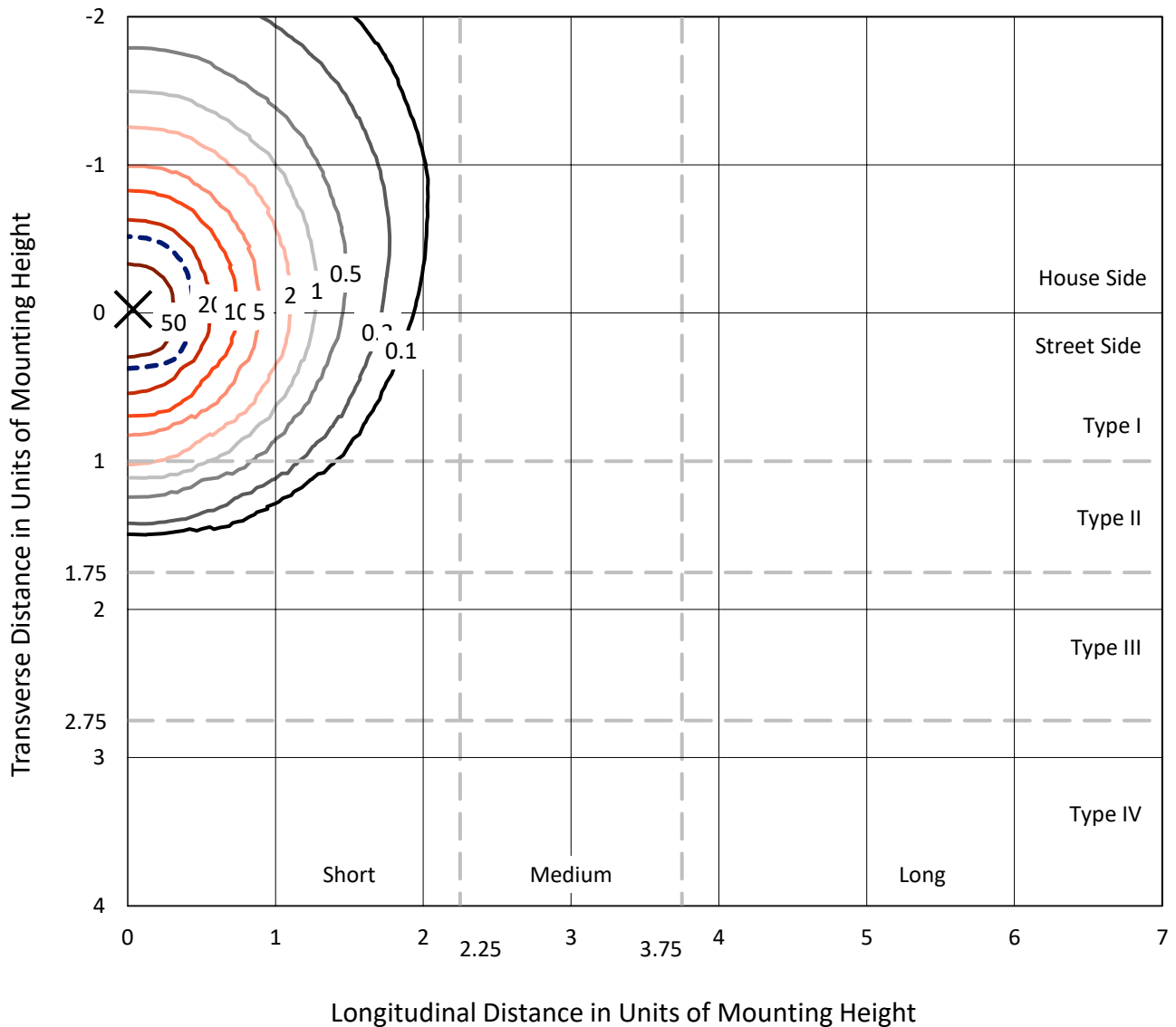
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

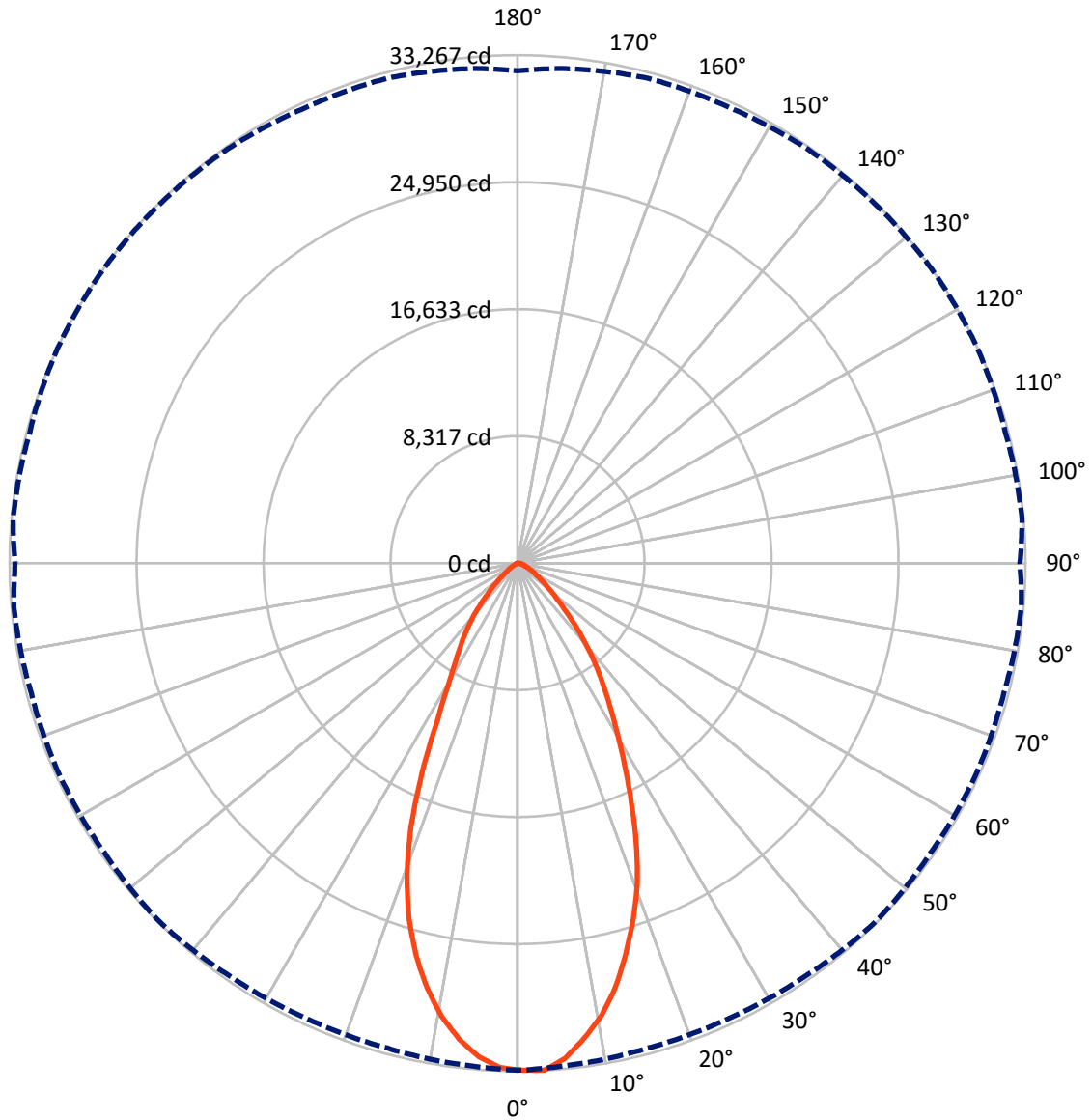
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 83 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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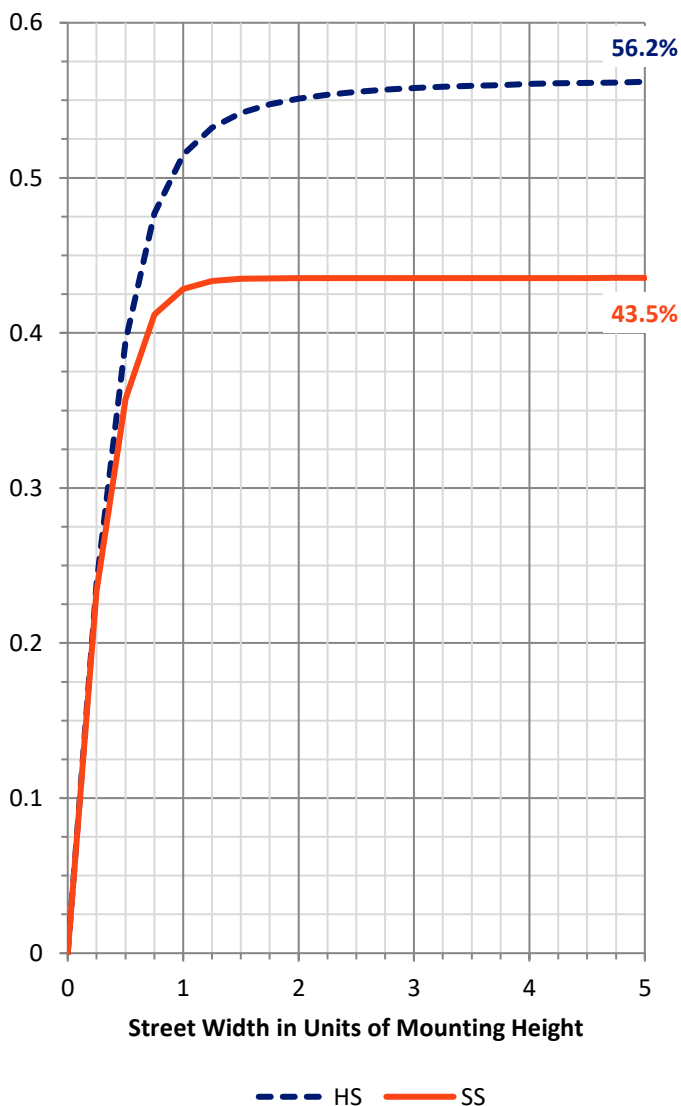
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15774.2	0.0	15774.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12024.7	0.0	12024.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	27798.9	0.0	27798.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3015.9	10.8
10°-20°	7189.1	25.9
20°-30°	7322.0	26.3
30°-40°	5460.0	19.6
40°-50°	2852.4	10.3
50°-60°	1199.7	4.3
60°-70°	490.0	1.8
70°-80°	206.2	0.7
80°-90°	63.5	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°	27798.9	100.0
0°-180°	27798.9	100.0



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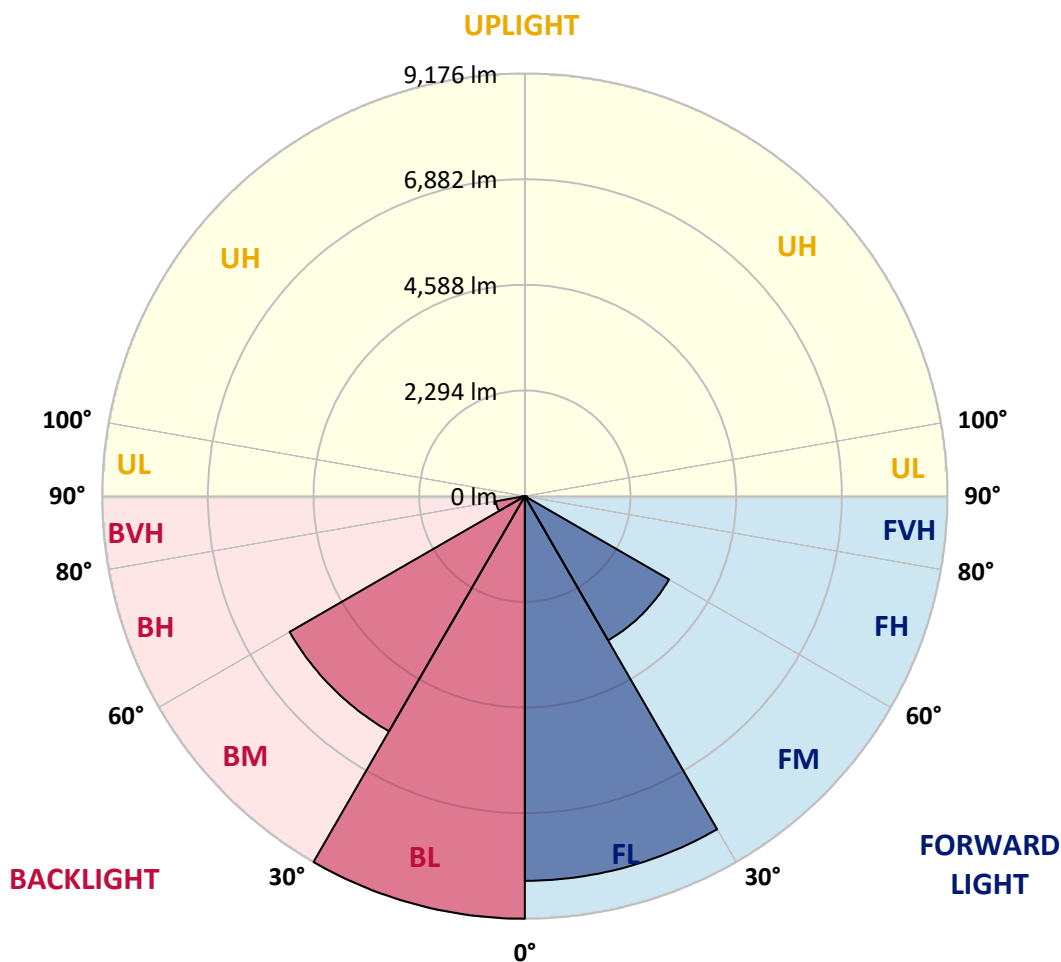
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8351.1	30.0			
FM (30°-60°)	3615.4	13.0			
FH (60°-80°)	52.3	0.2			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	9175.9	33.0	B5		
BM (30°-60°)	5896.8	21.2	B4/8500		
BH (60°-80°)	643.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	57.6	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0
2.5°	33216.6	33080.9	32888.0	32870.2	32970.2	33188.0	33048.7	33055.9	32970.2	33116.6
5°	32695.2	32566.7	32434.5	32259.6	32406.0	32498.8	32427.4	32348.8	32238.1	32381.0
7.5°	31709.6	31638.2	31441.8	31363.3	31452.5	31556.1	31402.6	31381.1	31227.6	31413.3
10°	30202.7	30174.2	29981.3	29934.9	30013.5	30170.6	30102.7	30088.5	29992.0	29974.2
12.5°	28638.7	28528.0	28288.7	28274.4	28392.3	28628.0	28445.8	28270.9	28324.4	28370.9
15°	24610.7	24492.8	25085.6	26017.6	26506.8	26489.0	26542.5	26331.9	26267.6	26289.0
17.5°	19565.0	19365.0	19579.3	21021.9	23346.6	24696.4	24325.0	23871.5	23628.7	23468.0
20°	16886.8	16897.5	16858.2	17229.6	18679.4	21757.5	21668.3	20793.4	20475.6	20343.5
22.5°	15258.5	15197.8	15112.1	15229.9	15619.1	17426.0	18636.6	17833.1	17722.4	17576.0
25°	13662.3	13662.3	13558.7	13676.6	13787.3	13812.3	15026.4	15354.9	15140.6	15140.6
27.5°	12280.3	12208.9	12162.5	12216.1	12069.7	11366.2	11519.7	13201.6	13055.2	12966.0
30°	10909.1	10887.7	10809.1	10880.6	10337.8	9545.0	9223.7	11141.2	11294.8	11262.6
32.5°	9005.8	9091.5	9441.5	9552.2	8623.7	7984.5	7677.4	9248.6	9862.8	9837.8
35°	6120.5	6192.0	6591.9	7913.1	7149.0	6691.9	6602.6	7356.1	8366.6	8463.0
37.5°	4874.3	4863.6	4977.8	5213.5	5745.6	5634.9	5609.9	5806.3	6824.0	6866.9
40°	4017.3	4003.0	3999.4	3806.6	3674.5	4685.0	4617.2	4499.3	5381.4	5467.1
42.5°	3238.8	3253.1	3263.8	2842.4	2649.6	3613.8	3574.5	3453.1	4220.8	4320.8
45°	2542.5	2538.9	2560.3	2117.5	2064.0	2310.4	2671.0	2574.6	3185.2	3292.4
47.5°	1317.7	1364.1	1653.3	1639.0	1664.0	1639.0	2021.1	1996.1	2396.1	2567.5
50°	885.6	899.9	924.9	928.4	1310.5	1207.0	1371.2	1553.3	1678.3	1942.6
52.5°	685.6	696.3	632.1	592.8	803.5	892.7	899.9	1074.8	1171.3	1439.1
55°	382.1	428.5	460.6	464.2	442.8	660.6	657.0	796.3	871.3	1049.8
57.5°	50.0	60.7	92.8	300.0	296.4	367.8	460.6	578.5	621.3	767.7
60°	3.6	7.1	10.7	46.4	196.4	214.3	314.2	360.7	432.1	539.2
62.5°	0.0	0.0	3.6	10.7	39.3	125.0	164.3	189.3	253.5	353.5
65°	0.0	0.0	3.6	7.1	14.3	46.4	64.3	103.6	150.0	217.8
67.5°	0.0	0.0	3.6	7.1	10.7	17.9	28.6	46.4	78.6	132.1
70°	0.0	0.0	3.6	7.1	10.7	14.3	21.4	28.6	42.9	71.4
72.5°	0.0	0.0	3.6	3.6	7.1	17.9	17.9	21.4	28.6	39.3
75°	0.0	0.0	3.6	7.1	10.7	17.9	17.9	17.9	21.4	25.0
77.5°	0.0	0.0	3.6	7.1	10.7	17.9	14.3	17.9	17.9	17.9
80°	0.0	0.0	3.6	7.1	10.7	17.9	21.4	17.9	14.3	14.3
82.5°	0.0	0.0	3.6	10.7	10.7	25.0	25.0	25.0	10.7	10.7
85°	0.0	0.0	7.1	10.7	17.9	28.6	28.6	21.4	10.7	7.1
87.5°	0.0	0.0	3.6	7.1	7.1	14.3	21.4	17.9	7.1	3.6
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°
33213.0	0°	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0	33213.0
32902.3	2.5°	33166.6	33077.3	33245.1	33266.6	33195.1	33105.9	32898.8	32880.9	32520.2
32173.9	5°	32538.1	32391.7	32498.8	32570.2	32545.2	32448.8	32363.1	32284.6	31959.6
30991.9	7.5°	31366.8	31313.3	31363.3	31416.8	31520.4	31416.8	31381.1	31299.0	30977.6
29827.8	10°	30067.0	29967.0	30156.3	30131.3	30102.7	30074.2	29924.2	29938.5	29560.0
28242.3	12.5°	28470.8	28303.0	28485.1	28506.5	28485.1	28385.1	28217.3	28288.7	27942.3
26099.8	15°	26324.7	26306.9	26439.0	26524.7	26585.4	26478.3	26421.1	26456.8	26249.7
23343.0	17.5°	23689.4	23921.5	24353.6	24500.0	24503.6	24614.3	24582.1	24539.3	24385.7
20289.9	20°	20589.8	21036.2	21700.4	22382.4	22578.8	22486.0	22443.1	22521.7	22293.2
17422.5	22.5°	17729.6	18111.6	18883.0	19879.2	20454.2	20511.3	20500.6	20432.7	20343.5
15126.4	25°	15301.3	15640.6	16379.7	17290.3	18393.7	18558.0	18565.1	18543.7	18465.2
13044.5	27.5°	13251.6	13662.3	14069.4	14883.5	16058.4	16736.8	16651.1	16626.1	16597.6
11287.6	30°	11394.8	11912.5	12294.6	12801.7	13855.1	14772.8	14862.1	14819.3	14751.4
9834.3	32.5°	9923.5	10230.6	10716.3	11059.1	11816.1	12855.3	13198.1	13165.9	13105.2
8523.8	35°	8645.2	8766.6	9148.7	9530.7	10034.2	11041.2	11548.3	11476.9	11466.2
6945.4	37.5°	7120.4	7527.5	7738.2	8123.8	8477.3	9259.4	9959.3	9927.1	9930.7
5584.9	40°	5749.2	5984.8	6402.6	6727.6	7052.5	7623.9	8402.3	8423.8	8416.6
4324.4	42.5°	4413.6	4642.2	5081.4	5434.9	5724.2	6077.7	6820.4	6845.4	6877.6
3367.4	45°	3445.9	3592.3	3913.7	4281.5	4588.6	4802.9	5367.1	5527.8	5531.3
2610.3	47.5°	2674.6	2842.4	3071.0	3424.5	3724.5	3878.0	4288.7	4506.5	4495.8
2003.3	50°	2099.7	2253.2	2438.9	2717.5	3042.4	3163.8	3467.4	3681.6	3670.9
1510.5	52.5°	1606.9	1803.3	1967.6	2181.8	2499.6	2603.2	2821.0	3067.4	3031.7
1107.0	55°	1217.7	1417.6	1571.2	1749.7	2039.0	2171.1	2321.1	2517.5	2524.6
857.0	57.5°	917.7	1124.8	1264.1	1446.2	1664.0	1810.4	1924.7	2135.4	2131.8
585.6	60°	657.0	835.6	1003.4	1192.7	1360.5	1528.3	1606.9	1806.9	1814.0
414.2	62.5°	474.9	642.8	803.5	967.7	1117.7	1282.0	1353.4	1510.5	1531.9
271.4	65°	332.1	449.9	635.6	760.6	928.4	1049.8	1142.7	1278.4	1303.4
160.7	67.5°	214.3	325.0	503.5	614.2	767.7	871.3	967.7	1074.8	1107.0
103.6	70°	128.6	246.4	374.9	492.8	632.1	724.9	817.7	910.6	928.4
50.0	72.5°	82.1	171.4	271.4	399.9	507.1	607.1	689.2	757.0	703.5
32.1	75°	46.4	117.8	214.3	314.2	410.7	507.1	574.9	610.6	489.2
21.4	77.5°	28.6	85.7	175.0	253.5	317.8	407.1	449.9	471.4	349.9
14.3	80°	17.9	64.3	146.4	207.1	207.1	300.0	349.9	367.8	253.5
10.7	82.5°	14.3	46.4	114.3	157.1	139.3	225.0	275.0	278.5	178.5
7.1	85°	10.7	35.7	71.4	103.6	96.4	157.1	160.7	178.5	117.8
7.1	87.5°	7.1	21.4	42.9	60.7	53.6	75.0	85.7	96.4	64.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33213.0
32238.1
31698.9
30909.8
29431.4
27842.4
25999.8
24157.2
22128.9
20172.1
18200.9
16429.7
14665.7
12944.5
11348.3
9816.4
8291.6
6770.4
5438.5
4456.5
3670.9
3035.3
2524.6
2124.7
1796.2
1524.8
1296.2
1103.4
914.2
653.5
464.2
328.5
235.7
164.3
107.1
57.1
0.0

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