

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: P636760

Luminaire Tested: **IFLD-L-SA7D-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24012.9 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

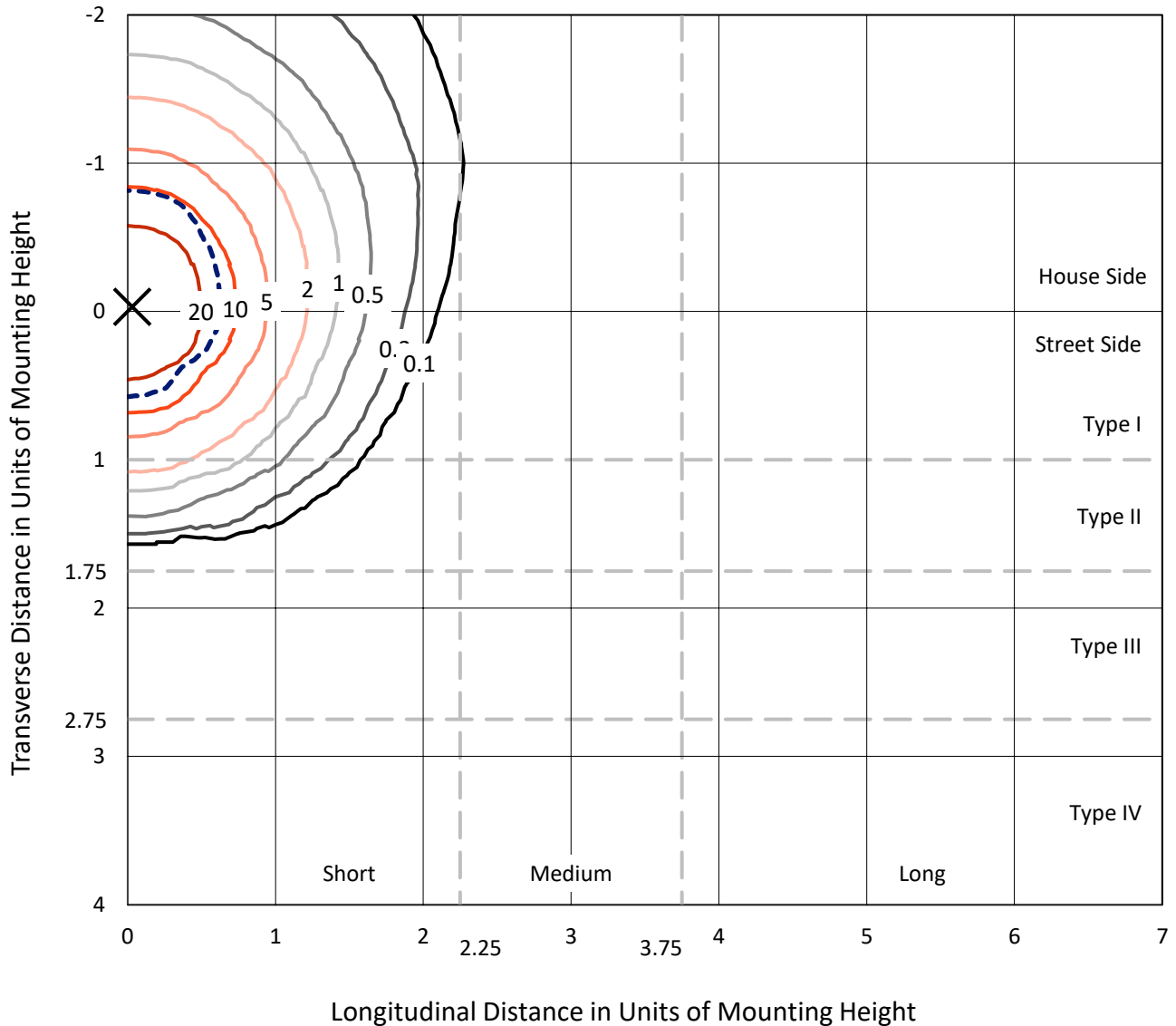
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

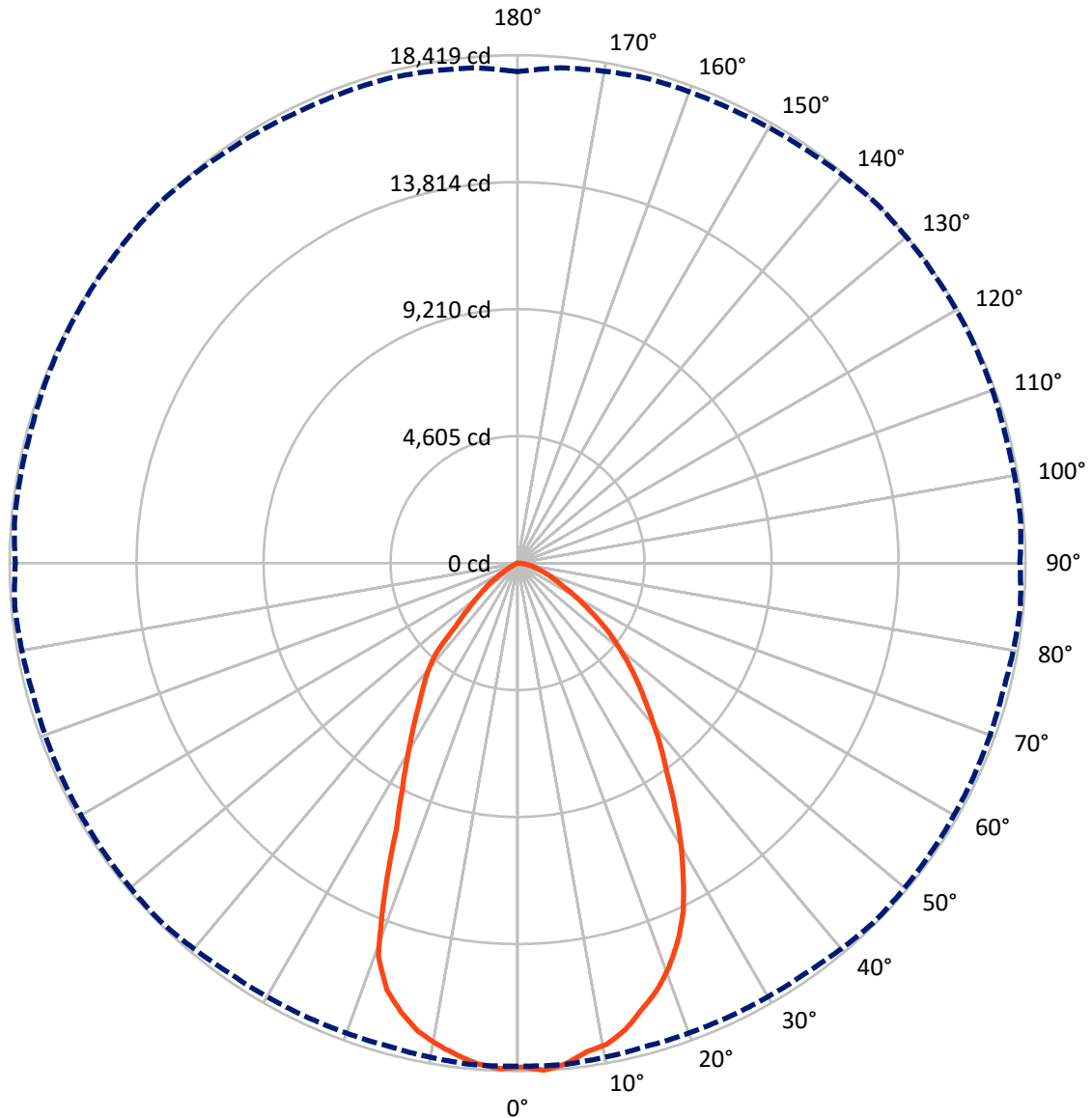
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.7 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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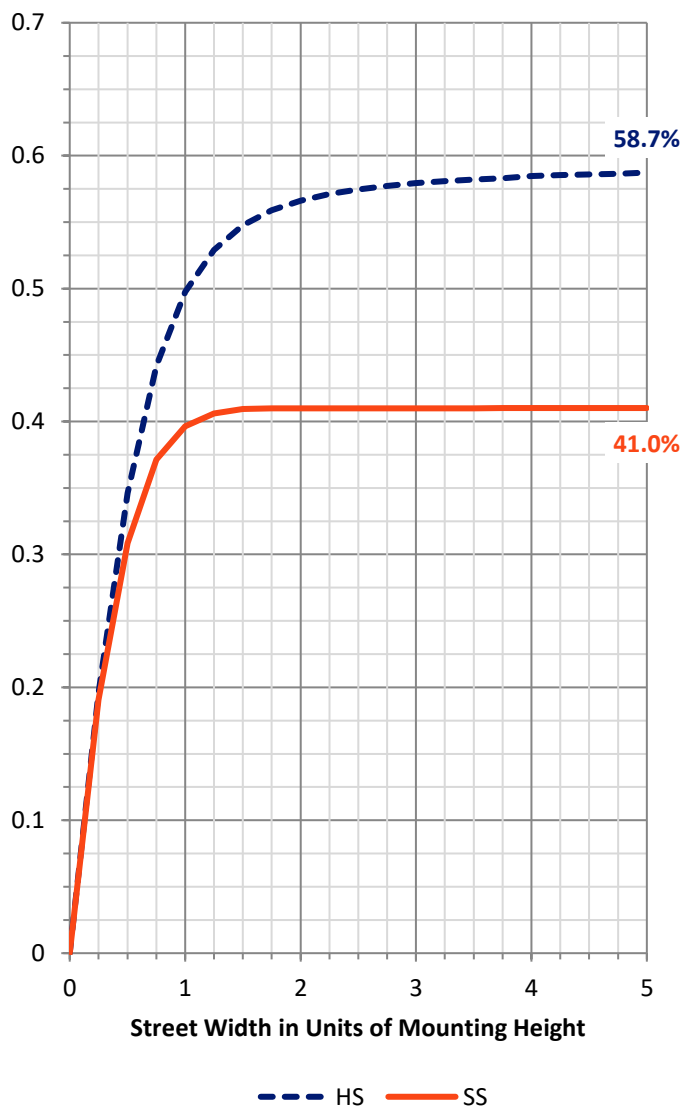
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14221.7	0.0	14221.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9791.2	0.0	9791.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	24012.9	0.0	24012.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1713.8	7.1
10°-20°	4595.6	19.1
20°-30°	5604.6	23.3
30°-40°	5117.0	21.3
40°-50°	3697.9	15.4
50°-60°	2019.1	8.4
60°-70°	834.8	3.5
70°-80°	338.1	1.4
80°-90°	92.0	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°	24012.9	100.0
0°-180°	24012.9	100.0



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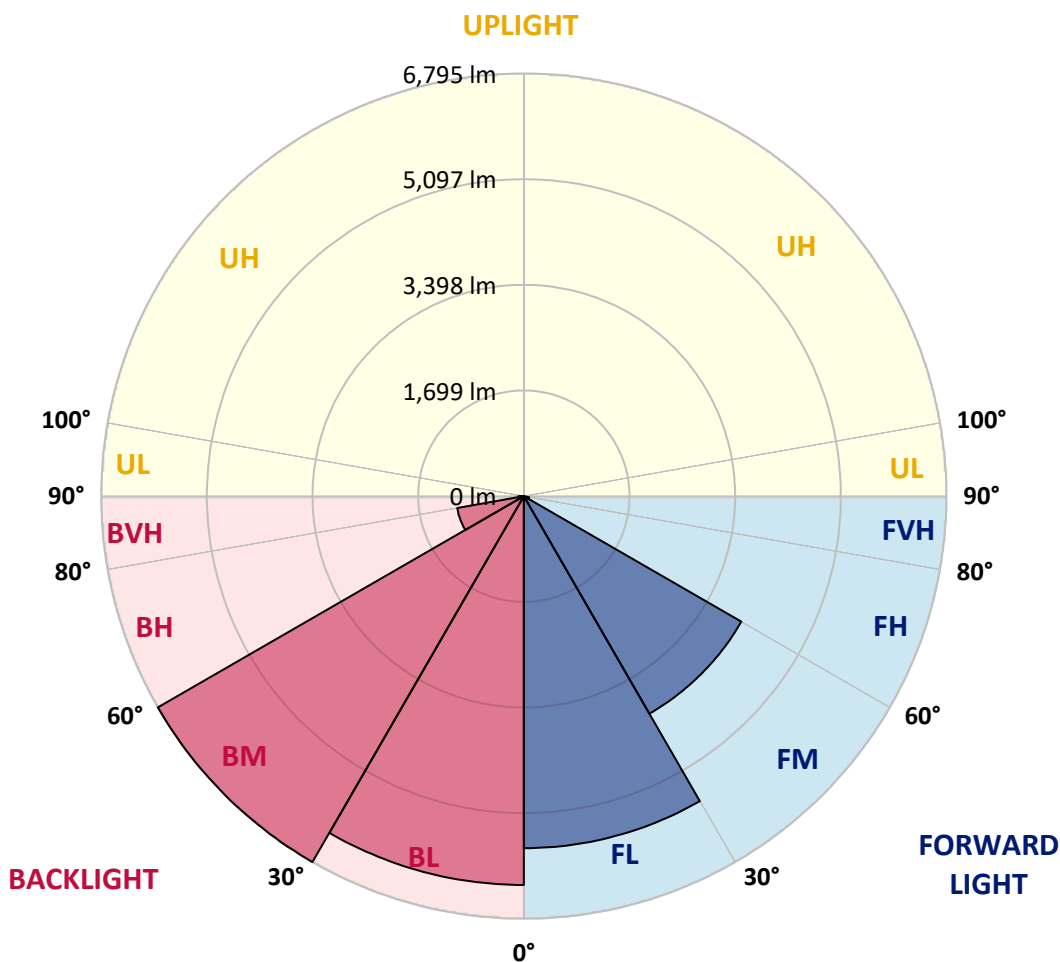
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5660.7	23.6			
FM (30°-60°)	4038.5	16.8			
FH (60°-80°)	84.6	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	6253.3	26.0	B5		
BM (30°-60°)	6795.4	28.3	B4/8500		
BH (60°-80°)	1088.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	84.6	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°	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7
2.5°	18239.9	18263.6	18135.1	18148.6	18172.3	18344.7	18300.8	18260.2	18202.7	18300.8
5°	18216.2	18229.8	18094.5	18047.2	18067.4	18223.0	18081.0	18081.0	18067.4	18050.5
7.5°	18033.6	18040.4	17935.6	17851.0	17905.1	17976.1	17871.3	17922.0	17847.6	17905.1
10°	17759.7	17715.8	17590.6	17567.0	17627.8	17695.5	17624.5	17671.8	17604.2	17648.1
12.5°	17357.3	17289.7	17188.2	17157.8	17262.6	17353.9	17296.5	17269.4	17181.5	17289.7
15°	15805.2	15754.5	15984.4	16386.8	16748.6	16826.4	16765.6	16792.6	16610.0	16640.4
17.5°	13008.7	12914.0	13160.9	14114.4	15473.8	16190.7	16136.6	15960.8	15690.2	15751.1
20°	11821.8	11794.7	11767.7	11994.2	12944.4	15118.8	15193.2	14746.8	14361.3	14276.8
22.5°	11152.2	11142.1	11115.0	11165.8	11416.0	12812.6	13664.7	13252.2	12995.2	12971.5
25°	10540.2	10523.3	10442.1	10506.4	10506.4	10587.5	11679.8	11930.0	11703.4	11676.4
27.5°	9918.0	9887.6	9874.0	9904.5	9748.9	9201.1	9478.4	10699.1	10580.8	10587.5
30°	9245.1	9234.9	9197.7	9262.0	8781.8	8102.1	7926.3	9583.2	9606.9	9600.1
32.5°	8244.1	8288.1	8457.2	8528.2	7736.9	7175.6	6881.4	8291.5	8775.0	8764.9
35°	5988.7	5988.7	6539.9	7564.5	6779.9	6357.3	6198.3	7030.2	7953.3	7987.1
37.5°	4923.5	4940.4	5048.6	5515.3	5850.0	5701.2	5653.9	5917.7	6898.3	6952.4
40°	4429.8	4429.8	4429.8	4237.0	4226.9	5136.5	5109.5	5024.9	5958.2	6076.6
42.5°	3980.0	3990.2	3997.0	3510.0	3239.5	4439.9	4379.1	4250.6	5116.2	5254.9
45°	3516.8	3533.7	3554.0	2935.2	2816.8	3195.5	3706.1	3564.1	4284.4	4463.6
47.5°	2147.3	2174.3	2634.2	2488.8	2502.3	2465.1	3023.1	2999.4	3513.4	3767.0
50°	1450.7	1460.8	1504.8	1579.2	2147.3	1937.6	2140.5	2482.0	2668.0	3053.5
52.5°	1217.3	1234.3	1126.0	1024.6	1410.1	1514.9	1494.6	1842.9	1917.3	2394.1
55°	855.5	909.6	858.9	848.8	801.4	1176.8	1132.8	1416.9	1464.2	1819.3
57.5°	87.9	101.4	175.8	632.3	524.1	666.2	808.2	1038.1	1085.5	1342.5
60°	6.8	6.8	16.9	87.9	382.1	399.0	558.0	639.1	730.4	936.7
62.5°	0.0	3.4	6.8	13.5	60.9	213.0	280.7	334.8	439.6	605.3
65°	0.0	0.0	3.4	10.1	13.5	81.2	108.2	175.8	240.1	375.3
67.5°	0.0	0.0	3.4	6.8	10.1	20.3	37.2	64.2	128.5	213.0
70°	0.0	0.0	3.4	6.8	10.1	16.9	27.1	40.6	57.5	115.0
72.5°	0.0	0.0	3.4	3.4	6.8	16.9	20.3	27.1	40.6	57.5
75°	0.0	0.0	3.4	3.4	10.1	20.3	16.9	20.3	27.1	37.2
77.5°	0.0	0.0	3.4	6.8	10.1	20.3	16.9	20.3	20.3	23.7
80°	0.0	0.0	3.4	6.8	13.5	23.7	20.3	20.3	16.9	16.9
82.5°	0.0	0.0	3.4	10.1	13.5	30.4	30.4	27.1	13.5	10.1
85°	0.0	0.0	6.8	13.5	20.3	33.8	33.8	27.1	10.1	6.8
87.5°	0.0	0.0	6.8	10.1	16.9	23.7	33.8	27.1	10.1	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°
18273.7	0°	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7	18273.7
18216.2	2.5°	18307.5	18287.2	18354.9	18381.9	18419.1	18277.1	18189.2	18192.6	18030.2
18010.0	5°	18118.2	18121.5	18209.5	18202.7	18239.9	18162.1	18128.3	18070.8	17928.8
17749.6	7.5°	17878.1	17847.6	17932.2	17996.4	17901.7	17955.9	17878.1	17905.1	17820.6
17519.6	10°	17692.1	17621.1	17698.9	17742.8	17746.2	17692.1	17617.7	17546.7	17516.3
17161.2	12.5°	17279.5	17188.2	17320.1	17381.0	17370.8	17266.0	17181.5	17198.4	17100.3
16532.2	15°	16711.5	16714.8	16809.5	16867.0	16812.9	16789.2	16796.0	16755.4	16670.9
15663.2	17.5°	15842.4	15893.1	16143.4	16282.0	16312.4	16265.1	16241.4	16194.1	16109.5
14276.8	20°	14395.1	14699.5	15145.8	15575.3	15659.8	15646.3	15561.7	15541.4	15494.1
12903.9	22.5°	13123.7	13350.2	13867.6	14537.1	14882.1	14915.9	14814.4	14784.0	14733.3
11676.4	25°	11808.3	12051.7	12518.4	13245.4	13958.9	14104.3	14087.4	13996.1	13942.0
10587.5	27.5°	10699.1	10942.6	11365.3	12021.3	12785.5	13252.2	13296.1	13150.7	13147.3
9617.0	30°	9698.2	10033.0	10354.2	10888.5	11629.0	12329.0	12403.4	12302.0	12312.1
8727.7	32.5°	8913.7	9191.0	9464.9	9823.3	10438.7	11253.7	11544.5	11449.8	11412.6
7987.1	35°	8112.3	8301.6	8582.3	8910.3	9329.6	10137.8	10641.6	10570.6	10533.4
6986.2	37.5°	7199.2	7523.9	7726.8	8095.3	8423.4	9065.8	9776.0	9765.8	9688.0
6134.1	40°	6262.6	6604.1	6911.8	7283.8	7537.4	8048.0	8835.9	8832.5	8842.7
5251.5	42.5°	5413.8	5728.3	6100.3	6506.0	6749.5	7121.5	7966.9	8014.2	8071.7
4524.5	45°	4646.2	4930.3	5275.2	5768.9	6063.1	6276.1	7026.8	7243.2	7239.8
3875.2	47.5°	3956.4	4223.5	4514.3	4994.5	5369.8	5562.6	6184.8	6492.5	6472.2
3178.6	50°	3320.6	3557.4	3861.7	4210.0	4713.8	4882.9	5346.2	5752.0	5721.5
2532.8	52.5°	2671.4	2999.4	3256.4	3574.3	4105.2	4270.9	4629.3	5024.9	5001.3
1900.4	55°	2083.0	2400.9	2712.0	2985.9	3432.2	3679.1	3936.1	4341.9	4335.1
1487.9	57.5°	1575.8	1924.1	2218.3	2478.7	2833.7	3138.0	3344.3	3712.9	3760.2
1017.8	60°	1166.6	1433.8	1751.6	2042.4	2323.1	2637.6	2776.2	3138.0	3158.3
696.6	62.5°	794.7	1088.8	1399.9	1663.7	1873.4	2198.0	2323.1	2620.7	2657.9
446.4	65°	551.2	740.6	1095.6	1285.0	1542.0	1819.3	1944.4	2181.1	2255.5
257.0	67.5°	365.2	527.5	855.5	1028.0	1281.6	1471.0	1629.9	1822.6	1903.8
162.3	70°	199.5	388.9	612.1	811.6	1031.4	1214.0	1369.5	1525.1	1596.1
74.4	72.5°	135.3	260.4	426.1	642.5	831.9	1011.1	1149.7	1264.7	1268.1
44.0	75°	67.6	175.8	324.6	497.1	649.3	825.1	950.2	1017.8	936.7
27.1	77.5°	40.6	128.5	263.8	399.0	527.5	666.2	737.2	774.4	642.5
20.3	80°	23.7	91.3	206.3	317.9	365.2	490.3	558.0	568.1	429.5
13.5	82.5°	16.9	67.6	162.3	233.3	223.2	344.9	419.3	405.8	273.9
10.1	85°	10.1	47.3	101.4	145.4	135.3	226.6	243.5	250.2	158.9
6.8	87.5°	6.8	27.1	54.1	77.8	64.2	98.1	98.1	118.4	77.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18273.7
17820.6
17895.0
17678.6
17381.0
17015.8
16586.3
16072.3
15385.9
14719.7
13884.5
13140.6
12261.4
11416.0
10482.7
9752.3
8842.7
8041.2
7246.6
6479.0
5748.6
5052.0
4352.0
3740.0
3188.8
2664.6
2238.6
1893.6
1569.0
1237.6
875.8
618.8
402.4
253.6
145.4
67.6
0.0

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