

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: P637509

Luminaire Tested: **IFLD-M-SA4D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637509
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23975.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

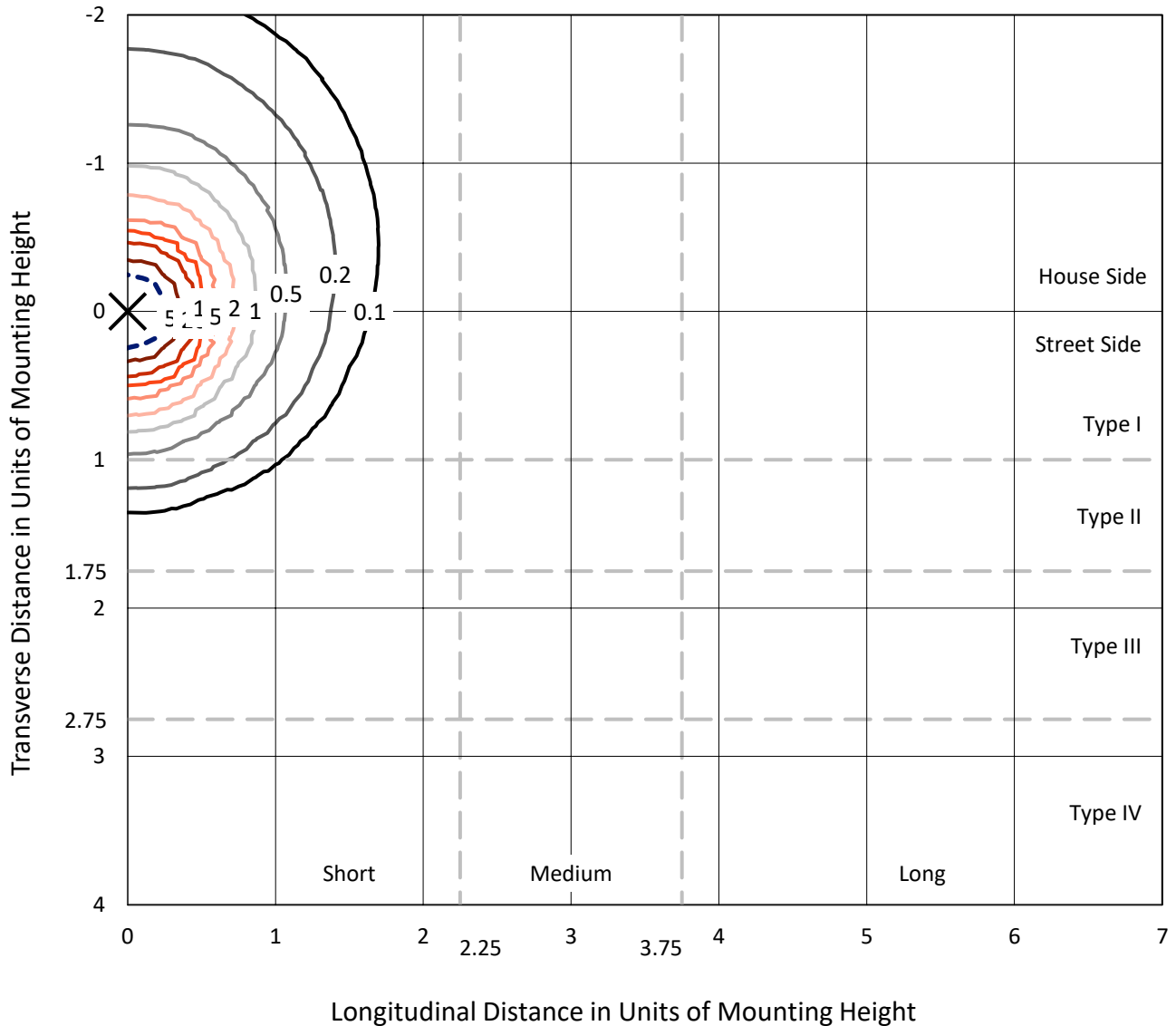
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

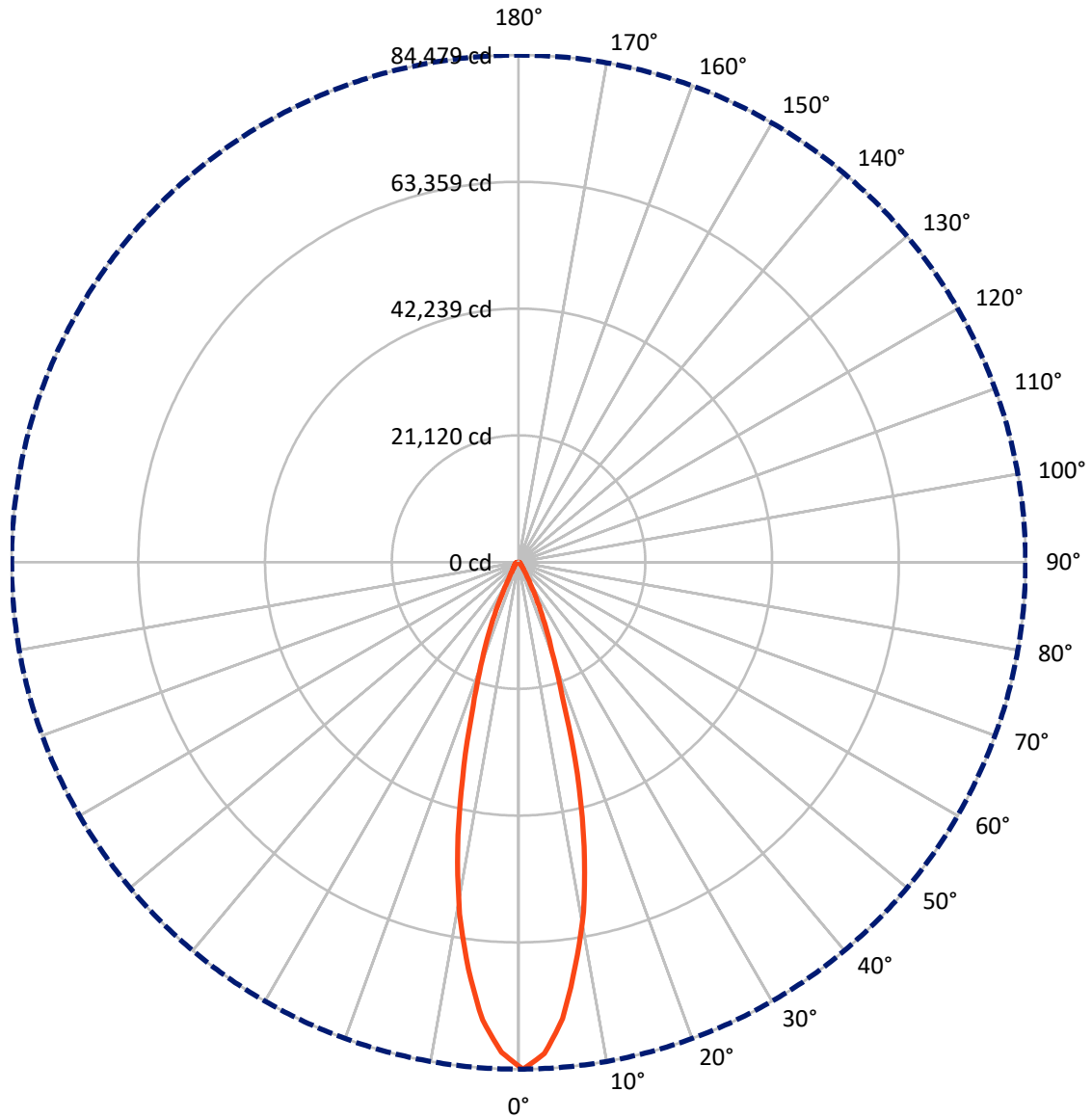
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 211.2 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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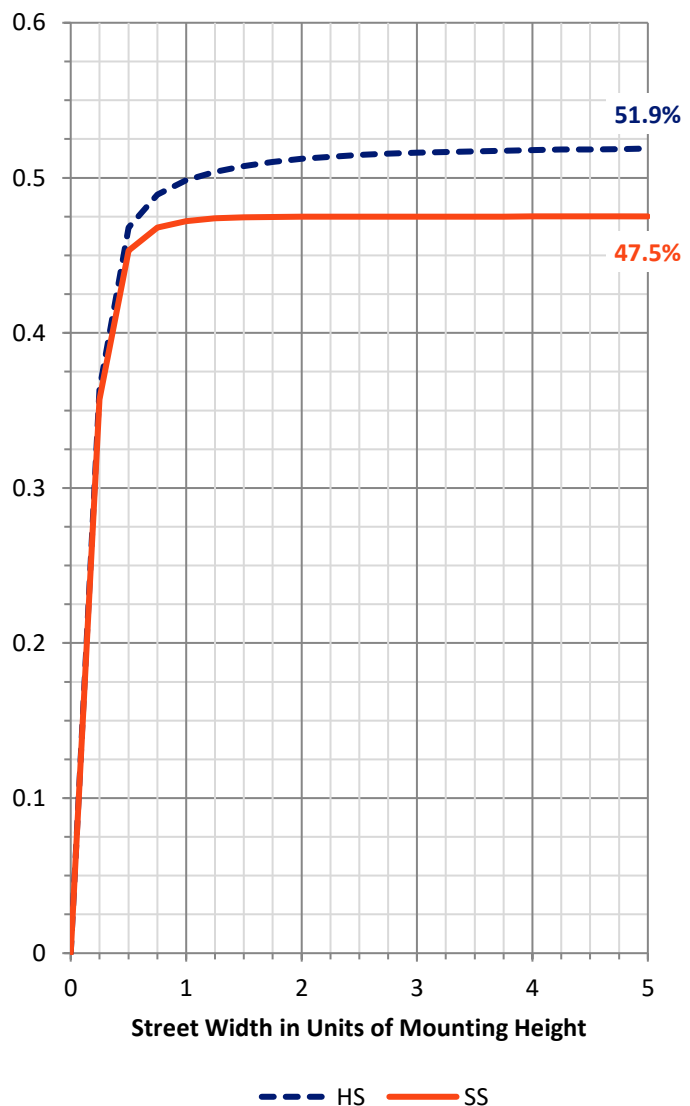
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12641.4	0.0	12641.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11333.9	0.0	11333.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	23975.3	0.0	23975.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6818.2	28.4
10°-20°	10326.1	43.1
20°-30°	4357.7	18.2
30°-40°	1136.5	4.7
40°-50°	574.8	2.4
50°-60°	375.7	1.6
60°-70°	225.1	0.9
70°-80°	118.4	0.5
80°-90°	42.8	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°	23975.3	100.0
0°-180°	23975.3	100.0



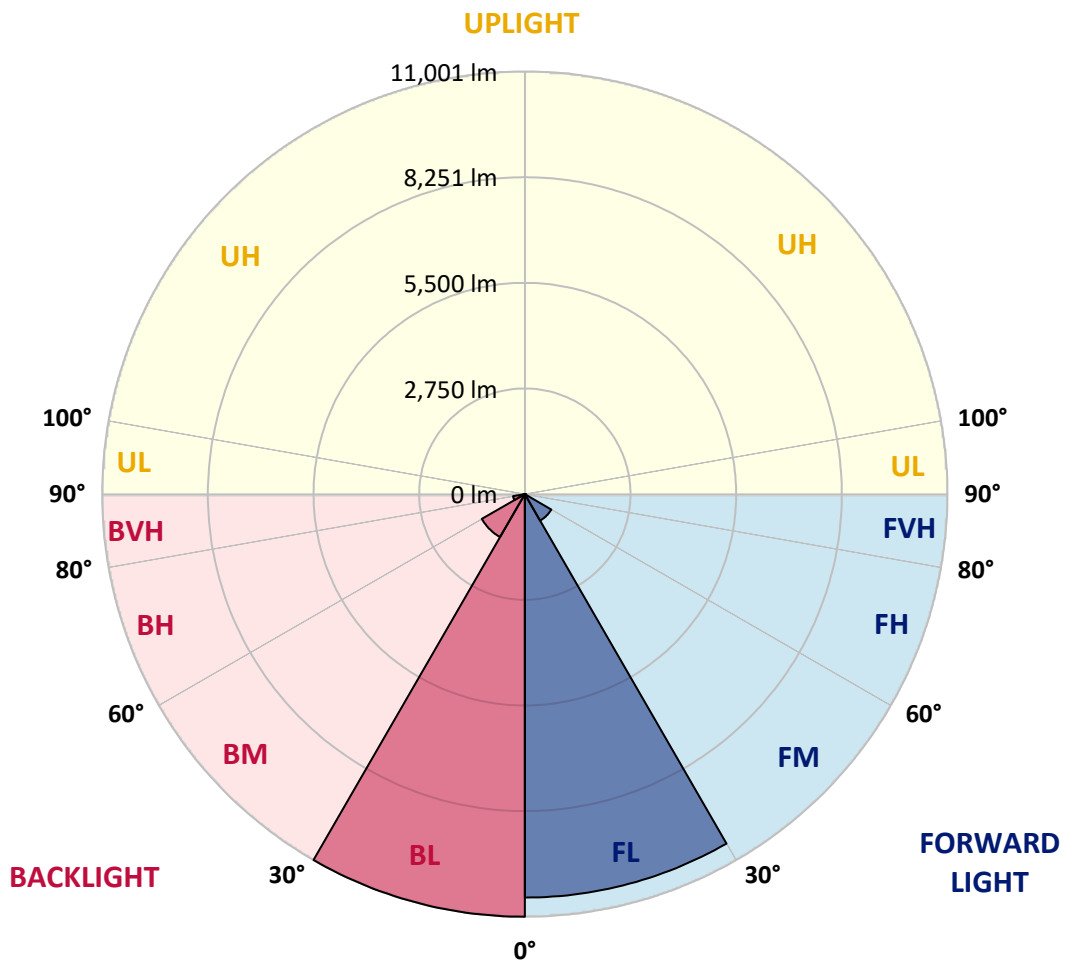
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10501.0	43.8			
FM (30°-60°)	795.3	3.3			
FH (60°-80°)	32.4	0.1			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	11000.9	45.9	B5		
BM (30°-60°)	1291.8	5.4	B2/2500		
BH (60°-80°)	311.1	1.3	B1/500		G0/660
BVH (80°-90°)	37.6	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7
2.5°	82017.8	82063.5	81893.9	82260.1	81974.7	82739.3	82359.7	82952.0	82752.8	83084.0
5°	76417.4	76342.0	76293.6	76861.7	76697.4	77518.6	76993.6	76821.3	77354.4	77257.5
7.5°	67960.4	68159.7	68046.6	68194.7	68278.1	69215.1	69511.3	69279.7	69287.8	69422.4
10°	59290.7	58997.2	58579.9	58857.2	59444.2	59853.4	59689.2	60028.4	59953.0	60273.4
12.5°	48623.2	48854.7	48620.5	48372.8	49398.6	49285.5	49570.9	49756.7	49290.9	50327.5
15°	36625.5	36746.7	37032.1	37013.3	37802.2	37961.0	37923.3	38119.9	37756.4	37928.7
17.5°	23529.4	23938.7	24706.0	26003.8	27463.1	27632.7	27589.6	27428.1	27253.1	27059.2
20°	15804.7	15761.7	16039.0	16418.6	19439.6	20239.2	20215.0	19708.8	18976.5	18836.5
22.5°	11071.4	11152.2	11114.5	11491.4	12116.1	14321.2	14049.3	13535.0	13295.4	13139.2
25°	7283.1	7253.5	7442.0	7555.0	8090.8	8360.1	9313.2	9122.1	8753.2	8793.6
27.5°	4439.9	4477.6	4547.6	4644.5	5024.1	4938.0	5481.9	5554.5	5436.1	5309.5
30°	2724.8	2751.7	2808.2	2878.2	3010.2	2915.9	3066.7	3327.9	3284.8	3196.0
32.5°	1849.7	1852.4	1892.8	1919.7	1903.6	1814.7	1863.2	2110.9	2116.3	2108.2
35°	1330.1	1330.1	1367.8	1389.3	1343.5	1270.8	1278.9	1432.4	1499.7	1513.2
37.5°	918.1	920.8	985.4	1050.1	998.9	980.1	947.7	1050.1	1157.8	1173.9
40°	697.3	694.7	727.0	775.4	780.8	745.8	756.6	821.2	931.6	945.1
42.5°	565.4	568.1	584.3	578.9	581.6	627.3	643.5	673.1	775.4	799.7
45°	476.6	479.3	487.3	460.4	449.6	519.6	541.2	557.3	643.5	673.1
47.5°	393.1	398.5	406.6	376.9	371.6	417.3	455.0	471.2	546.6	578.9
50°	282.7	288.1	317.7	301.6	317.7	328.5	379.6	403.9	455.0	498.1
52.5°	204.6	210.0	218.1	220.8	261.2	266.6	304.2	341.9	366.2	414.6
55°	161.5	166.9	161.5	156.2	191.2	220.8	234.2	274.6	293.5	350.0
57.5°	91.5	96.9	105.0	121.2	126.5	169.6	183.1	218.1	234.2	288.1
60°	16.2	18.8	29.6	72.7	88.9	107.7	137.3	166.9	188.5	226.2
62.5°	2.7	2.7	5.4	16.2	51.2	75.4	99.6	118.5	137.3	172.3
65°	0.0	0.0	2.7	5.4	13.5	43.1	53.8	70.0	94.2	123.9
67.5°	0.0	0.0	2.7	5.4	8.1	16.2	24.2	43.1	53.8	83.5
70°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	18.8	32.3	51.2
72.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	16.2	16.2	32.3
75°	0.0	0.0	2.7	5.4	8.1	13.5	16.2	16.2	13.5	13.5
77.5°	0.0	0.0	2.7	5.4	10.8	16.2	18.8	16.2	10.8	10.8
80°	0.0	0.0	5.4	8.1	13.5	18.8	24.2	18.8	10.8	5.4
82.5°	0.0	0.0	5.4	10.8	13.5	21.5	29.6	24.2	10.8	5.4
85°	0.0	0.0	2.7	8.1	16.2	21.5	29.6	21.5	10.8	2.7
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	16.2	13.5	5.4	2.7
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°
84478.7	0°	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7	84478.7
82456.6	2.5°	82930.5	83361.3	83450.1	83331.7	83504.0	83194.4	82957.4	82343.5	81974.7
77227.9	5°	77726.0	77661.3	78111.0	78259.1	78240.2	78003.3	77672.1	77300.6	76939.8
69161.2	7.5°	69592.0	69675.5	70084.8	70345.9	70214.0	69917.8	69689.0	69409.0	69166.6
60389.2	10°	60941.2	60367.7	60876.5	60876.5	61229.3	60391.9	60470.0	59764.6	59796.9
50308.6	12.5°	50481.0	50688.3	50771.7	51011.4	50599.4	50155.2	49611.3	49503.6	49167.0
37600.2	15°	38141.4	38733.7	38224.9	39094.5	38674.5	38211.4	38127.9	37293.3	37557.1
27271.9	17.5°	27137.3	27791.6	27996.2	28494.3	28112.0	27837.4	27490.0	27236.9	27218.1
19092.2	20°	19243.0	19900.0	20050.8	20648.5	20605.4	20519.2	20225.8	19905.4	19558.0
12996.5	22.5°	13193.1	13728.9	14229.7	15034.7	15021.2	14768.1	14738.5	14286.2	14294.3
8780.1	25°	8871.7	9262.1	9380.5	10204.4	10296.0	10269.0	10115.6	9695.6	9854.4
5363.4	27.5°	5368.8	5710.7	6111.9	6402.7	6677.3	6634.2	6480.8	6246.5	6144.2
3222.9	30°	3309.0	3462.5	3610.6	3960.6	4124.9	4211.0	4138.3	3920.2	3936.4
2121.7	32.5°	2167.4	2296.7	2404.4	2625.1	2711.3	2870.2	2840.5	2794.8	2740.9
1526.6	35°	1580.5	1674.7	1747.4	1849.7	1960.1	2094.7	2116.3	2097.4	2075.9
1179.3	37.5°	1206.2	1303.2	1386.6	1429.7	1515.9	1620.9	1680.1	1677.4	1661.2
961.2	40°	980.1	1052.8	1128.1	1184.7	1243.9	1322.0	1394.7	1402.8	1402.8
807.7	42.5°	818.5	880.4	955.8	1015.1	1058.1	1130.8	1206.2	1211.6	1206.2
683.9	45°	700.0	753.9	826.6	896.6	931.6	985.4	1058.1	1074.3	1063.5
587.0	47.5°	608.5	657.0	718.9	794.3	832.0	880.4	947.7	966.6	963.9
506.2	50°	522.3	578.9	640.8	702.7	751.2	797.0	861.6	883.1	875.0
430.8	52.5°	460.4	511.6	565.4	632.7	689.3	729.7	780.8	818.5	807.7
363.5	55°	385.0	446.9	503.5	560.0	630.0	673.1	721.6	767.4	756.6
306.9	57.5°	333.9	385.0	449.6	500.8	570.8	622.0	670.4	718.9	716.2
250.4	60°	280.0	333.9	395.8	449.6	514.3	570.8	619.3	673.1	678.5
188.5	62.5°	220.8	285.4	339.3	401.2	465.8	527.7	570.8	624.7	632.7
142.7	65°	166.9	234.2	293.5	352.7	417.3	484.6	522.3	568.1	576.2
105.0	67.5°	123.9	180.4	250.4	304.2	371.6	436.2	471.2	508.9	522.3
64.6	70°	94.2	137.3	210.0	261.2	331.2	382.3	420.0	452.3	463.1
43.1	72.5°	59.2	107.7	169.6	223.5	285.4	331.2	358.1	376.9	393.1
24.2	75°	40.4	83.5	137.3	191.2	236.9	271.9	296.2	312.3	325.8
10.8	77.5°	24.2	64.6	113.1	158.9	188.5	215.4	239.6	250.4	258.5
8.1	80°	13.5	48.5	94.2	129.2	148.1	166.9	185.8	199.2	204.6
5.4	82.5°	8.1	37.7	75.4	99.6	107.7	126.5	145.4	153.5	153.5
2.7	85°	5.4	26.9	51.2	72.7	78.1	91.5	96.9	102.3	107.7
2.7	87.5°	5.4	16.2	32.3	40.4	43.1	48.5	51.2	56.5	61.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
84478.7
81702.7
76535.9
68345.4
59481.9
48860.1
37293.3
26717.3
19407.3
14138.1
9604.0
6055.3
3866.4
2722.1
2067.8
1653.2
1386.6
1200.8
1063.5
958.5
869.7
805.0
762.0
718.9
681.2
638.1
584.3
527.7
468.5
390.4
323.1
255.8
199.2
150.8
105.0
59.2
0.0

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