

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: P638021

Luminaire Tested: **IFLD-S-SA3D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638021
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15616.1 lumens
Efficiency: N/A
Efficacy: 84.8 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

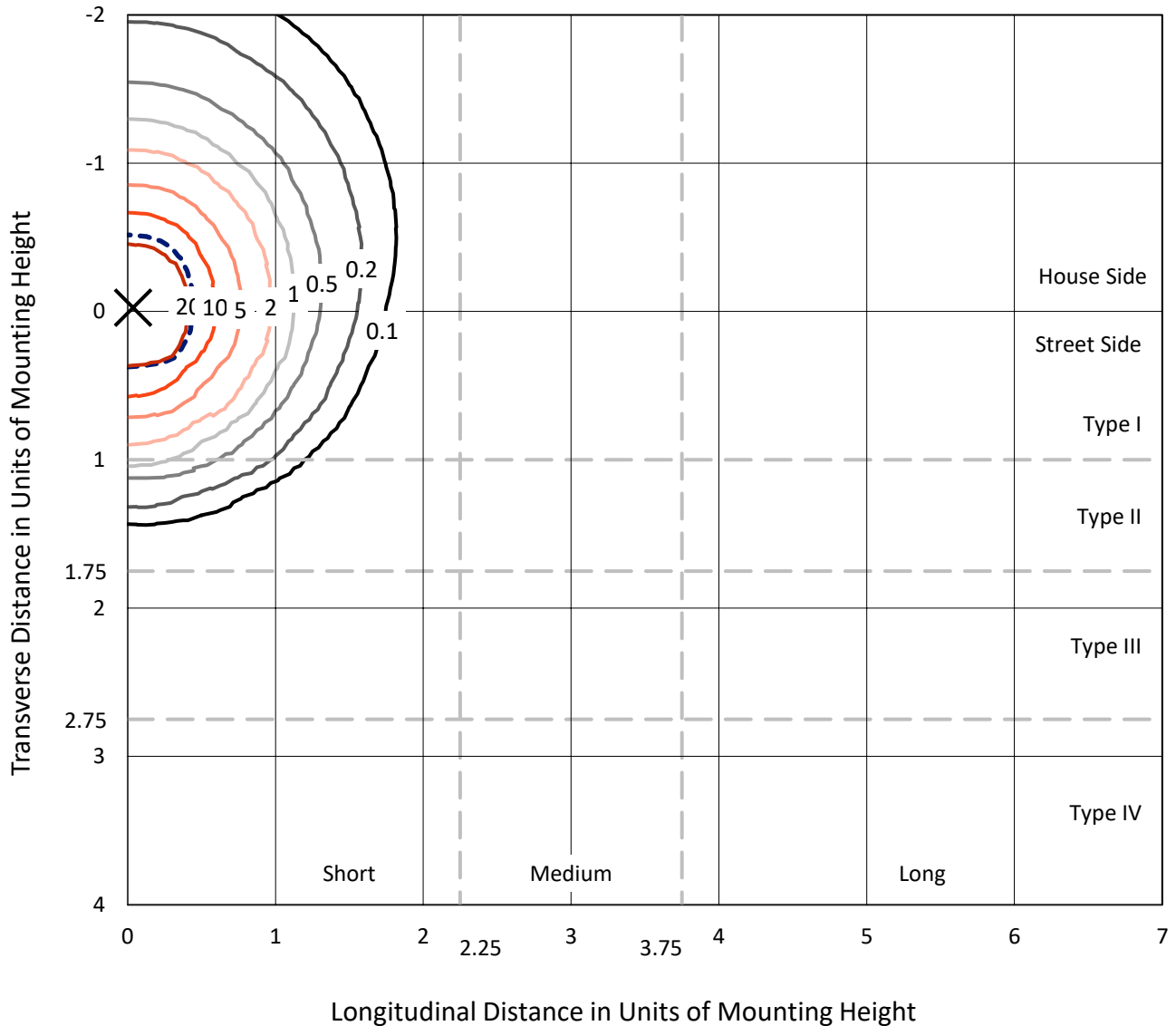
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

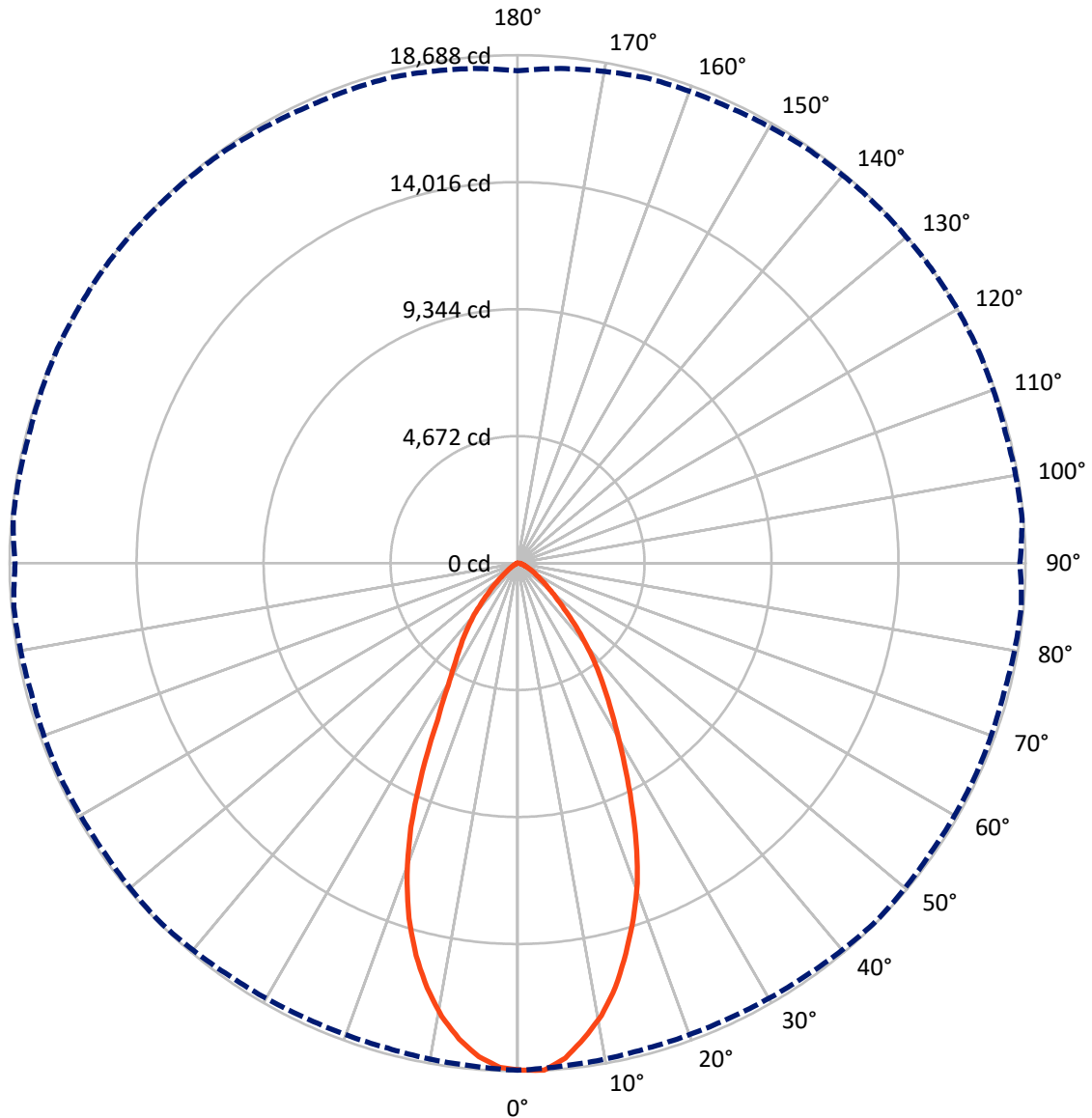
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.6 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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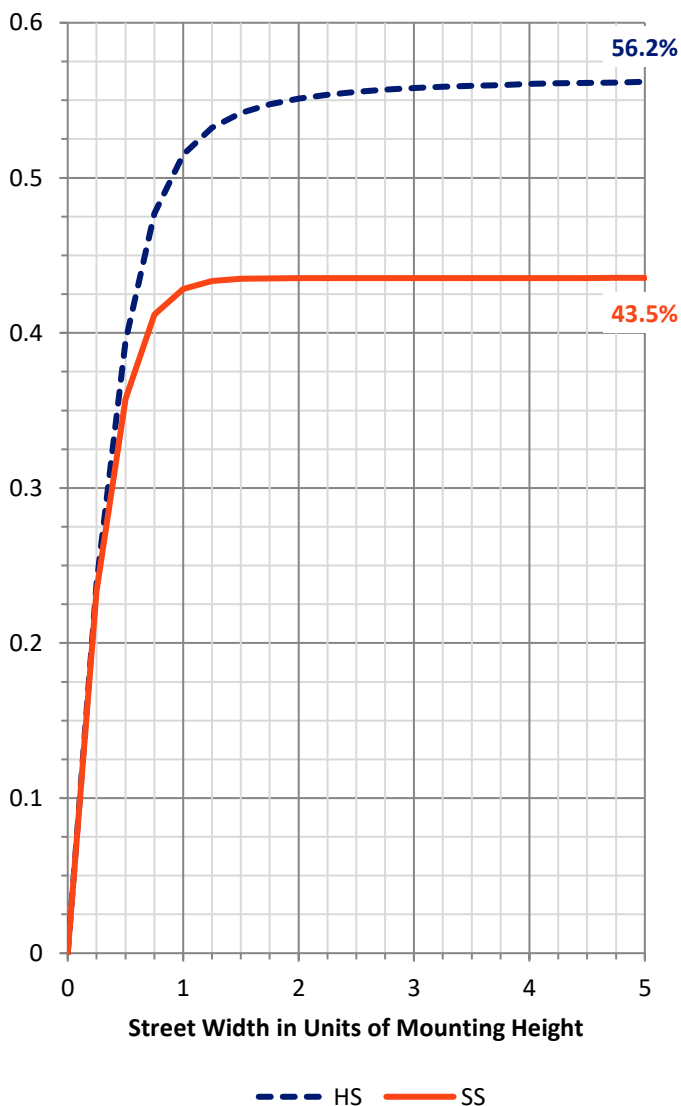
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8861.2	0.0	8861.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6754.9	0.0	6754.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	15616.1	0.0	15616.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1694.2	10.8
10°-20°	4038.5	25.9
20°-30°	4113.1	26.3
30°-40°	3067.2	19.6
40°-50°	1602.4	10.3
50°-60°	674.0	4.3
60°-70°	275.2	1.8
70°-80°	115.8	0.7
80°-90°	35.7	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°	15616.1	100.0
0°-180°	15616.1	100.0



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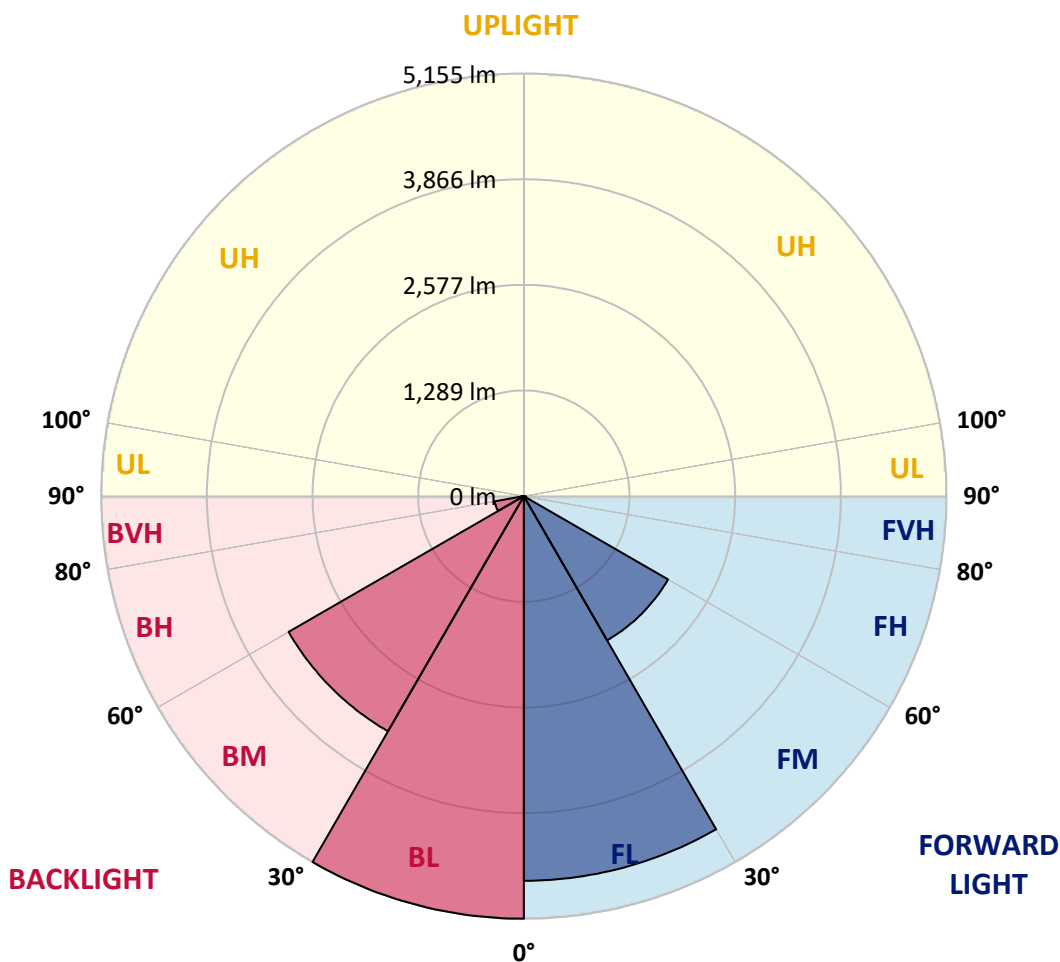
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4691.3	30.0			
FM (30°-60°)	2030.9	13.0			
FH (60°-80°)	29.4	0.2			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	5154.6	33.0	B5		
BM (30°-60°)	3312.6	21.2	B3/5000		
BH (60°-80°)	361.7	2.3	B1/500		G1/500
BVH (80°-90°)	32.4	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°	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4
2.5°	18659.4	18583.2	18474.9	18464.9	18521.0	18643.4	18565.2	18569.2	18521.0	18603.3
5°	18366.6	18294.4	18220.1	18121.8	18204.1	18256.2	18216.1	18172.0	18109.8	18190.0
7.5°	17812.9	17772.8	17662.5	17618.3	17668.5	17726.7	17640.4	17628.4	17542.1	17646.4
10°	16966.4	16950.4	16842.0	16816.0	16860.1	16948.4	16910.2	16902.2	16848.1	16838.0
12.5°	16087.8	16025.6	15891.2	15883.2	15949.4	16081.8	15979.5	15881.2	15911.3	15937.4
15°	13825.1	13758.9	14091.9	14615.4	14890.2	14880.2	14910.3	14792.0	14755.8	14767.9
17.5°	10990.7	10878.3	10998.7	11809.1	13115.0	13873.2	13664.6	13409.8	13273.4	13183.2
20°	9486.2	9492.2	9470.1	9678.8	10493.2	12222.3	12172.2	11680.7	11502.2	11428.0
22.5°	8571.5	8537.4	8489.2	8555.4	8774.1	9789.1	10469.1	10017.8	9955.6	9873.3
25°	7674.8	7674.8	7616.6	7682.8	7745.0	7759.1	8441.1	8625.6	8505.3	8505.3
27.5°	6898.5	6858.4	6832.3	6862.4	6780.1	6385.0	6471.2	7416.0	7333.8	7283.6
30°	6128.2	6116.2	6072.0	6112.2	5807.3	5361.9	5181.4	6258.6	6344.9	6326.8
32.5°	5059.0	5107.2	5303.8	5365.9	4844.4	4485.3	4312.8	5195.4	5540.5	5526.4
35°	3438.2	3478.3	3703.0	4445.2	4015.9	3759.2	3709.0	4132.3	4700.0	4754.1
37.5°	2738.1	2732.1	2796.3	2928.7	3227.6	3165.4	3151.4	3261.7	3833.4	3857.5
40°	2256.7	2248.7	2246.7	2138.4	2064.1	2631.8	2593.7	2527.5	3023.0	3071.1
42.5°	1819.4	1827.4	1833.4	1596.7	1488.4	2030.0	2008.0	1939.8	2371.0	2427.2
45°	1428.2	1426.2	1438.3	1189.5	1159.4	1297.9	1500.5	1446.3	1789.3	1849.5
47.5°	740.2	766.3	928.8	920.7	934.8	920.7	1135.4	1121.3	1346.0	1442.3
50°	497.5	505.5	519.5	521.5	736.2	678.0	770.3	872.6	942.8	1091.2
52.5°	385.1	391.2	355.1	333.0	451.3	501.5	505.5	603.8	658.0	808.4
55°	214.6	240.7	258.8	260.8	248.7	371.1	369.1	447.3	489.5	589.8
57.5°	28.1	34.1	52.2	168.5	166.5	206.6	258.8	325.0	349.0	431.3
60°	2.0	4.0	6.0	26.1	110.3	120.4	176.5	202.6	242.7	302.9
62.5°	0.0	0.0	2.0	6.0	22.1	70.2	92.3	106.3	142.4	198.6
65°	0.0	0.0	2.0	4.0	8.0	26.1	36.1	58.2	84.3	122.4
67.5°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	26.1	44.1	74.2
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	24.1	40.1
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	10.0	12.0	16.0	22.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	10.0	10.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	6.0	10.0	8.0	10.0	10.0	10.0
80°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	10.0	8.0	8.0
82.5°	0.0	0.0	2.0	6.0	6.0	14.0	14.0	14.0	6.0	6.0
85°	0.0	0.0	4.0	6.0	10.0	16.0	16.0	12.0	6.0	4.0
87.5°	0.0	0.0	2.0	4.0	4.0	8.0	12.0	10.0	4.0	2.0
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°
18657.4	0°	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4	18657.4
18482.9	2.5°	18631.4	18581.2	18675.5	18687.5	18647.4	18597.3	18480.9	18470.9	18268.3
18073.7	5°	18278.3	18196.1	18256.2	18296.4	18282.3	18228.2	18180.0	18135.9	17953.3
17409.7	7.5°	17620.4	17590.3	17618.3	17648.4	17706.6	17648.4	17628.4	17582.2	17401.7
16755.8	10°	16890.2	16834.0	16940.3	16926.3	16910.2	16894.2	16809.9	16818.0	16605.3
15865.1	12.5°	15993.5	15899.2	16001.5	16013.6	16001.5	15945.4	15851.1	15891.2	15696.6
14661.6	15°	14787.9	14777.9	14852.1	14900.3	14934.4	14874.2	14842.1	14862.2	14745.8
13113.0	17.5°	13307.5	13437.9	13680.6	13762.9	13764.9	13827.1	13809.0	13785.0	13698.7
11397.9	20°	11566.4	11817.1	12190.2	12573.4	12683.7	12631.5	12607.5	12651.6	12523.2
9787.1	22.5°	9959.6	10174.2	10607.5	11167.2	11490.1	11522.2	11516.2	11478.1	11428.0
8497.2	25°	8595.5	8786.1	9201.3	9712.9	10332.7	10425.0	10429.0	10417.0	10372.8
7327.8	27.5°	7444.1	7674.8	7903.5	8360.8	9020.8	9401.9	9353.8	9339.8	9323.7
6340.8	30°	6401.0	6691.9	6906.5	7191.4	7783.1	8298.7	8348.8	8324.7	8286.6
5524.4	32.5°	5574.6	5747.1	6019.9	6212.5	6637.7	7221.5	7414.0	7396.0	7361.9
4788.2	35°	4856.4	4924.6	5139.3	5353.9	5636.7	6202.4	6487.3	6447.2	6441.1
3901.6	37.5°	3999.9	4228.6	4346.9	4563.6	4762.1	5201.5	5594.6	5576.6	5578.6
3137.3	40°	3229.6	3362.0	3596.7	3779.2	3961.8	4282.7	4720.0	4732.1	4728.0
2429.2	42.5°	2479.4	2607.7	2854.5	3053.1	3215.6	3414.1	3831.4	3845.4	3863.5
1891.6	45°	1935.8	2018.0	2198.5	2405.1	2577.7	2698.0	3015.0	3105.2	3107.2
1466.4	47.5°	1502.5	1596.7	1725.1	1923.7	2092.2	2178.5	2409.2	2531.5	2525.5
1125.3	50°	1179.5	1265.8	1370.1	1526.5	1709.1	1777.3	1947.8	2068.1	2062.1
848.5	52.5°	902.7	1013.0	1105.3	1225.6	1404.2	1462.3	1584.7	1723.1	1703.1
621.8	55°	684.0	796.4	882.6	982.9	1145.4	1219.6	1303.9	1414.2	1418.2
481.4	57.5°	515.5	631.9	710.1	812.4	934.8	1017.0	1081.2	1199.6	1197.6
329.0	60°	369.1	469.4	563.7	670.0	764.3	858.6	902.7	1015.0	1019.0
232.7	62.5°	266.8	361.1	451.3	543.6	627.9	720.1	760.3	848.5	860.6
152.5	65°	186.6	252.8	357.1	427.3	521.5	589.8	641.9	718.1	732.2
90.3	67.5°	120.4	182.5	282.8	345.0	431.3	489.5	543.6	603.8	621.8
58.2	70°	72.2	138.4	210.6	276.8	355.1	407.2	459.4	511.5	521.5
28.1	72.5°	46.1	96.3	152.5	224.7	284.8	341.0	387.2	425.3	395.2
18.1	75°	26.1	66.2	120.4	176.5	230.7	284.8	323.0	343.0	274.8
12.0	77.5°	16.0	48.1	98.3	142.4	178.5	228.7	252.8	264.8	196.6
8.0	80°	10.0	36.1	82.2	116.3	116.3	168.5	196.6	206.6	142.4
6.0	82.5°	8.0	26.1	64.2	88.3	78.2	126.4	154.5	156.5	100.3
4.0	85°	6.0	20.1	40.1	58.2	54.2	88.3	90.3	100.3	66.2
4.0	87.5°	4.0	12.0	24.1	34.1	30.1	42.1	48.1	54.2	36.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18657.4
18109.8
17806.9
17363.6
16533.1
15640.5
14605.4
13570.3
12430.9
11331.7
10224.4
9229.4
8238.5
7271.6
6374.9
5514.4
4657.8
3803.3
3055.1
2503.4
2062.1
1705.1
1418.2
1193.5
1009.0
856.5
728.2
619.8
513.5
367.1
260.8
184.5
132.4
92.3
60.2
32.1
0.0

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