

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: P637296

Luminaire Tested: **IFLD-S-SA3D-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

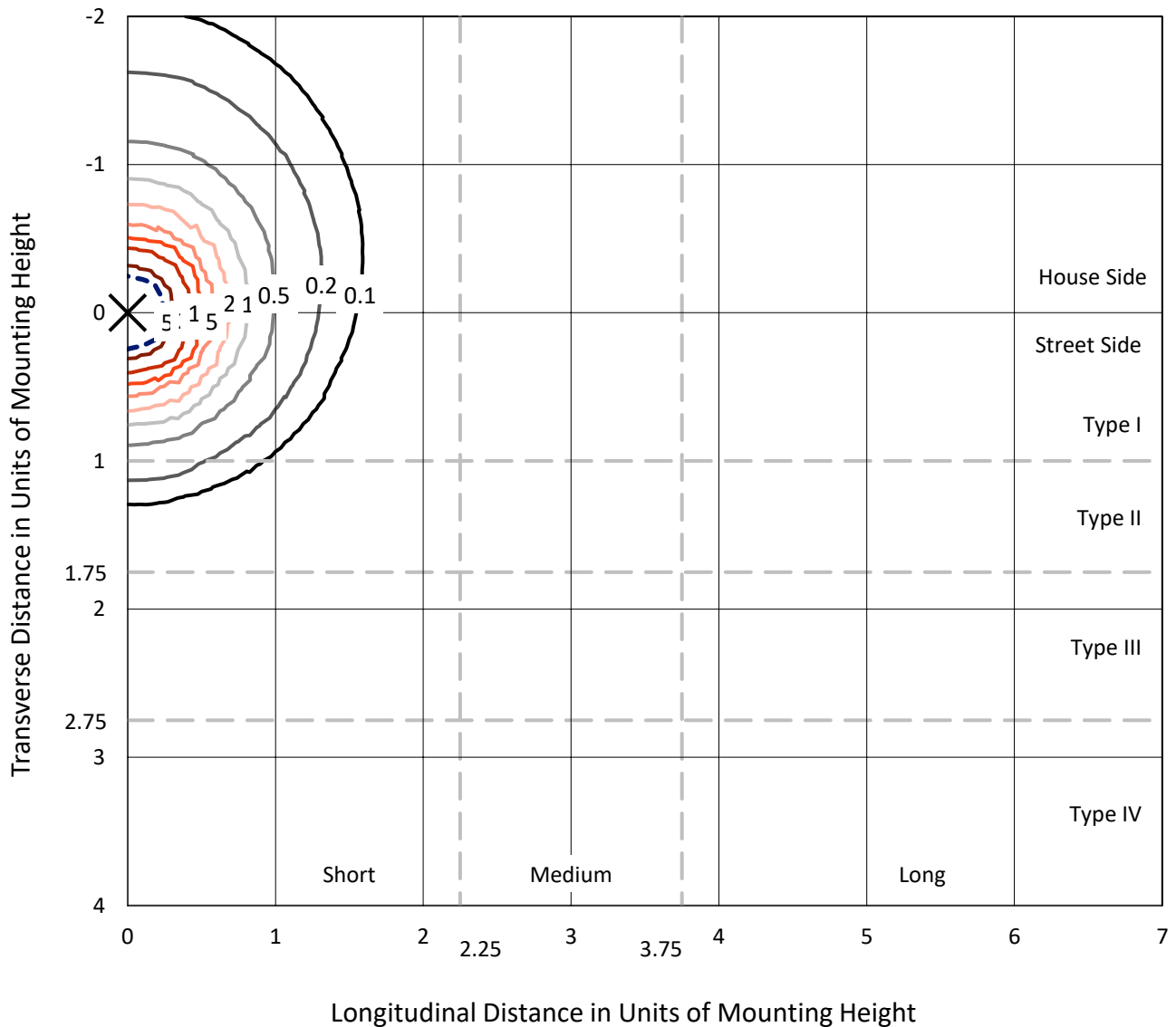
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

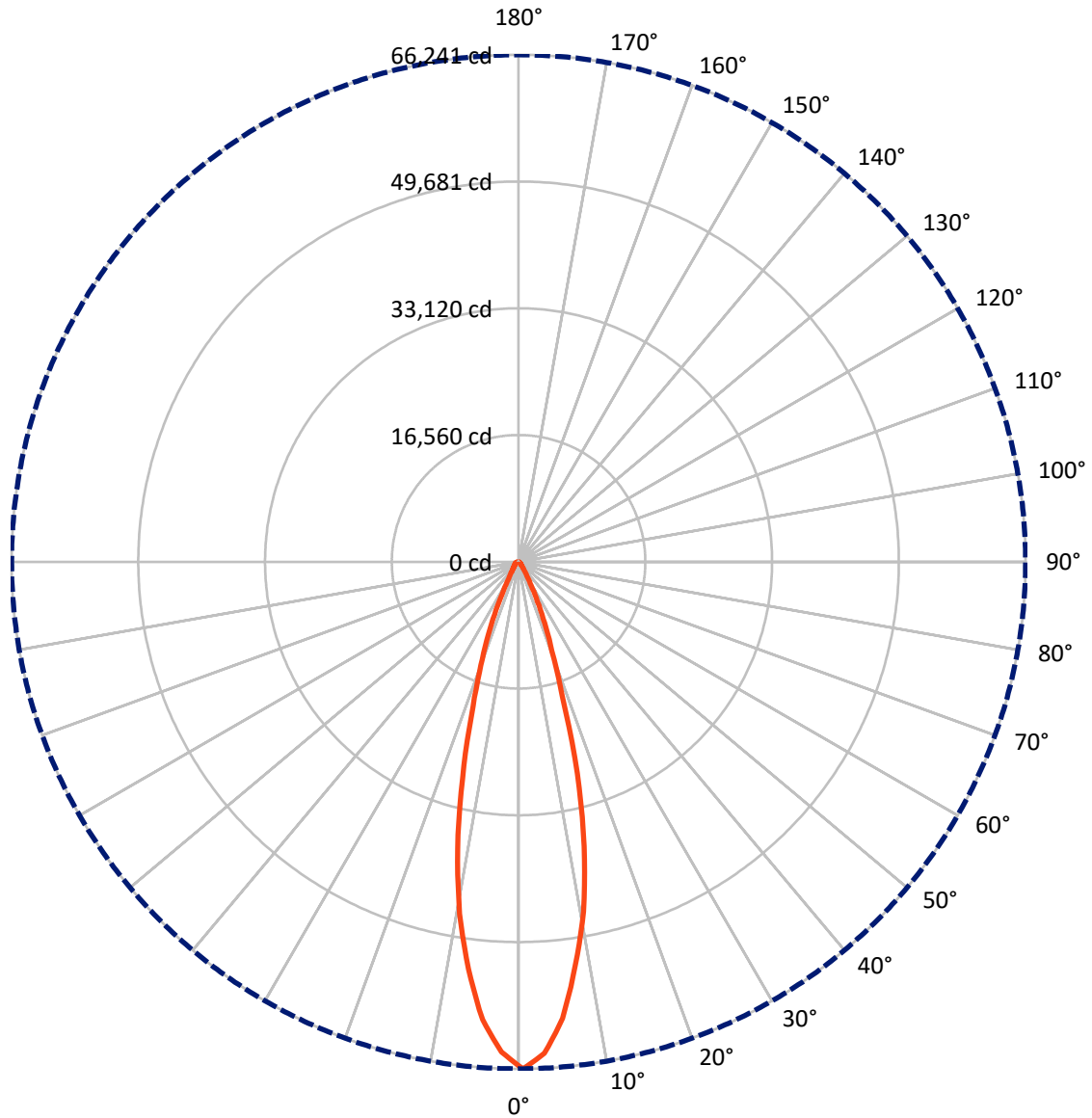
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 165.6 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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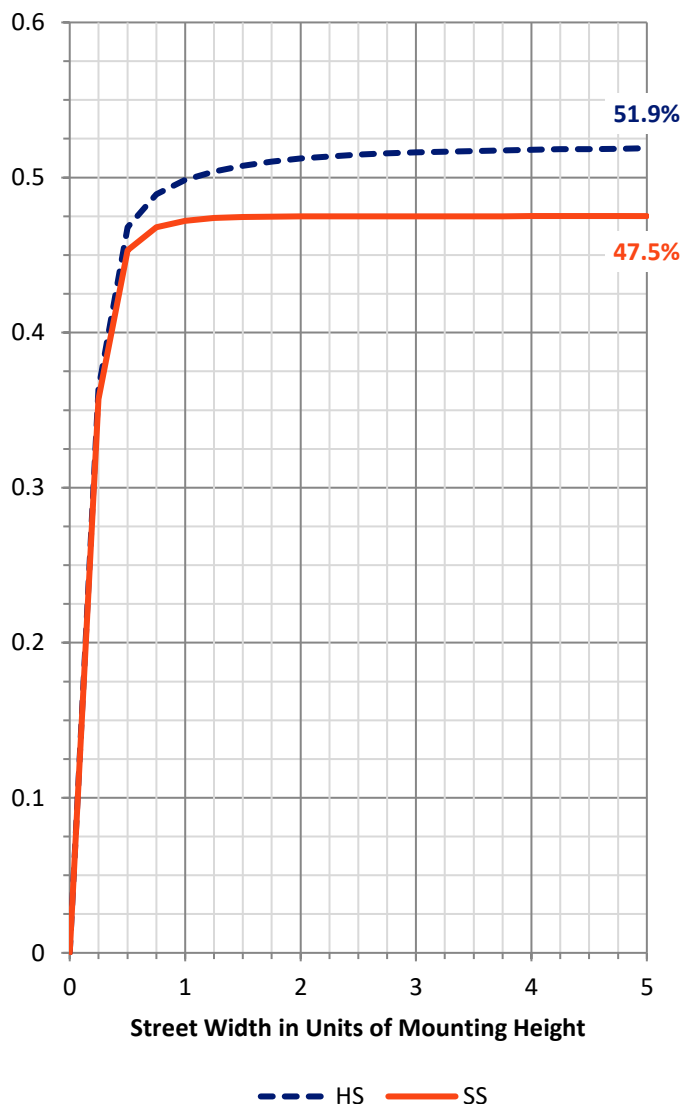
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9912.3	0.0	9912.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8887.1	0.0	8887.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	18799.4	0.0	18799.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5346.2	28.4
10°-20°	8096.8	43.1
20°-30°	3416.9	18.2
30°-40°	891.2	4.7
40°-50°	450.7	2.4
50°-60°	294.6	1.6
60°-70°	176.5	0.9
70°-80°	92.9	0.5
80°-90°	33.5	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°	18799.4	100.0
0°-180°	18799.4	100.0

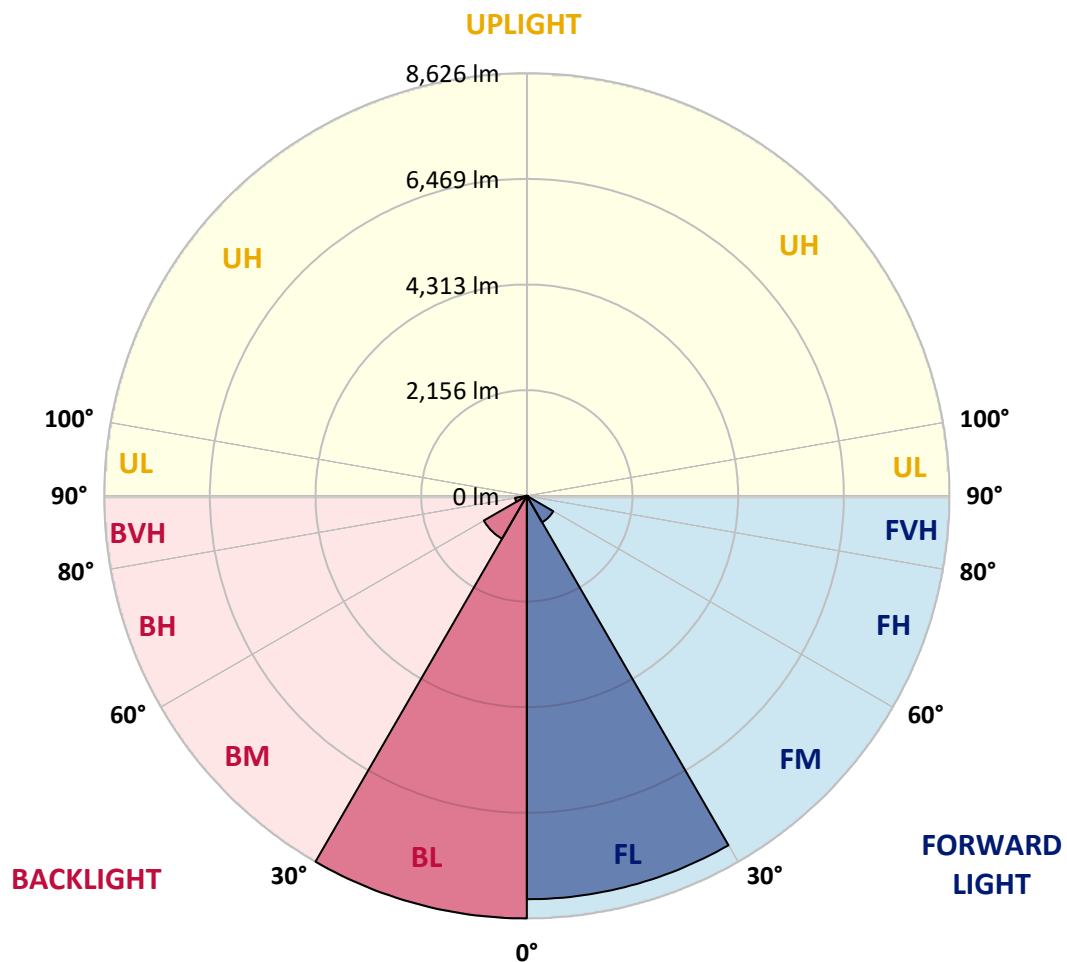


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8234.0	43.8			
FM (30°-60°)	623.6	3.3			
FH (60°-80°)	25.4	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	8625.9	45.9	B5		
BM (30°-60°)	1012.9	5.4	B2/2500		
BH (60°-80°)	244.0	1.3	B1/500		G0/660
BVH (80°-90°)	29.5	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°	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8
2.5°	64311.2	64347.1	64214.1	64501.2	64277.4	64877.0	64579.3	65043.8	64887.6	65147.2
5°	59919.9	59860.8	59822.8	60268.3	60139.5	60783.4	60371.7	60236.6	60654.6	60578.6
7.5°	53288.7	53444.9	53356.2	53472.3	53537.8	54272.5	54504.7	54323.1	54329.5	54435.0
10°	46490.6	46260.5	45933.3	46150.7	46611.0	46931.9	46803.1	47069.1	47010.0	47261.2
12.5°	38126.1	38307.6	38124.0	37929.7	38734.1	38645.4	38869.2	39014.9	38649.6	39462.4
15°	28718.6	28813.6	29037.4	29022.6	29641.2	29765.7	29736.2	29890.3	29605.3	29740.4
17.5°	18449.7	18770.6	19372.3	20389.9	21534.2	21667.2	21633.4	21506.7	21369.5	21217.5
20°	12392.7	12358.9	12576.4	12874.1	15242.8	15869.8	15850.8	15453.9	14879.7	14769.9
22.5°	8681.2	8744.6	8715.0	9010.6	9500.4	11229.4	11016.2	10613.0	10425.1	10302.6
25°	5710.8	5687.6	5835.3	5924.0	6344.1	6555.3	7302.6	7152.7	6863.5	6895.2
27.5°	3481.4	3510.9	3565.8	3641.8	3939.5	3871.9	4298.4	4355.4	4262.5	4163.3
30°	2136.5	2157.6	2202.0	2256.9	2360.3	2286.4	2404.7	2609.4	2575.7	2506.0
32.5°	1450.4	1452.5	1484.2	1505.3	1492.6	1422.9	1460.9	1655.2	1659.4	1653.1
35°	1042.9	1042.9	1072.5	1089.4	1053.5	996.5	1002.8	1123.2	1175.9	1186.5
37.5°	719.9	722.0	772.7	823.4	783.3	768.5	743.1	823.4	907.8	920.5
40°	546.8	544.7	570.0	608.0	612.2	584.8	593.2	643.9	730.5	741.0
42.5°	443.4	445.5	458.1	453.9	456.0	491.9	504.6	527.8	608.0	627.0
45°	373.7	375.8	382.1	361.0	352.6	407.5	424.4	437.0	504.6	527.8
47.5°	308.2	312.5	318.8	295.6	291.3	327.2	356.8	369.5	428.6	453.9
50°	221.7	225.9	249.1	236.5	249.1	257.6	297.7	316.7	356.8	390.6
52.5°	160.5	164.7	171.0	173.1	204.8	209.0	238.6	268.1	287.1	325.1
55°	126.7	130.9	126.7	122.4	149.9	173.1	183.7	215.3	230.1	274.5
57.5°	71.8	76.0	82.3	95.0	99.2	133.0	143.6	171.0	183.7	225.9
60°	12.7	14.8	23.2	57.0	69.7	84.4	107.7	130.9	147.8	177.3
62.5°	2.1	2.1	4.2	12.7	40.1	59.1	78.1	92.9	107.7	135.1
65°	0.0	0.0	2.1	4.2	10.6	33.8	42.2	54.9	73.9	97.1
67.5°	0.0	0.0	2.1	4.2	6.3	12.7	19.0	33.8	42.2	65.4
70°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	14.8	25.3	40.1
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	12.7	12.7	25.3
75°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	12.7	10.6	10.6
77.5°	0.0	0.0	2.1	4.2	8.4	12.7	14.8	12.7	8.4	8.4
80°	0.0	0.0	4.2	6.3	10.6	14.8	19.0	14.8	8.4	4.2
82.5°	0.0	0.0	4.2	8.4	10.6	16.9	23.2	19.0	8.4	4.2
85°	0.0	0.0	2.1	6.3	12.7	16.9	23.2	16.9	8.4	2.1
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	12.7	10.6	4.2	2.1
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°
66240.8	0°	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8	66240.8
64655.3	2.5°	65026.9	65364.7	65434.4	65341.5	65476.6	65233.8	65048.0	64566.7	64277.4
60555.4	5°	60946.0	60895.3	61247.9	61364.0	61349.2	61163.4	60903.7	60612.4	60329.5
54230.3	7.5°	54568.0	54633.5	54954.4	55159.2	55055.7	54823.5	54644.0	54424.5	54234.5
47352.0	10°	47784.8	47335.1	47734.1	47734.1	48010.7	47354.1	47415.3	46862.2	46887.5
39447.7	12.5°	39582.8	39745.3	39810.8	39998.7	39675.7	39327.3	38900.9	38816.4	38552.5
29482.8	15°	29907.2	30371.6	29972.6	30654.5	30325.2	29962.1	29896.6	29242.2	29449.1
21384.3	17.5°	21278.7	21791.8	21952.2	22342.8	22043.0	21827.6	21555.3	21356.8	21342.1
14970.5	20°	15088.7	15603.8	15722.1	16190.8	16157.0	16089.4	15859.3	15608.1	15335.7
10190.7	22.5°	10344.9	10765.0	11157.7	11788.9	11778.4	11579.9	11556.7	11202.0	11208.3
6884.6	25°	6956.4	7262.5	7355.4	8001.4	8073.2	8052.1	7931.8	7602.4	7727.0
4205.5	27.5°	4209.7	4477.8	4792.4	5020.4	5235.8	5202.0	5081.6	4898.0	4817.7
2527.1	30°	2594.7	2715.0	2831.1	3105.6	3234.4	3301.9	3244.9	3073.9	3086.6
1663.6	32.5°	1699.5	1800.8	1885.3	2058.4	2126.0	2250.5	2227.3	2191.4	2149.2
1197.0	35°	1239.3	1313.2	1370.2	1450.4	1536.9	1642.5	1659.4	1644.6	1627.7
924.7	37.5°	945.8	1021.8	1087.3	1121.0	1188.6	1270.9	1317.4	1315.3	1302.6
753.7	40°	768.5	825.5	884.6	928.9	975.4	1036.6	1093.6	1099.9	1099.9
633.4	42.5°	641.8	690.4	749.5	795.9	829.7	886.7	945.8	950.0	945.8
536.2	45°	548.9	591.1	648.1	703.0	730.5	772.7	829.7	842.4	833.9
460.2	47.5°	477.1	515.1	563.7	622.8	652.4	690.4	743.1	757.9	755.8
396.9	50°	409.6	453.9	502.5	551.0	589.0	624.9	675.6	692.5	686.1
337.8	52.5°	361.0	401.1	443.4	496.1	540.5	572.1	612.2	641.8	633.4
285.0	55°	301.9	350.5	394.8	439.1	494.0	527.8	565.8	601.7	593.2
240.7	57.5°	261.8	301.9	352.6	392.7	447.6	487.7	525.7	563.7	561.6
196.3	60°	219.6	261.8	310.3	352.6	403.2	447.6	485.6	527.8	532.0
147.8	62.5°	173.1	223.8	266.0	314.6	365.2	413.8	447.6	489.8	496.1
111.9	65°	130.9	183.7	230.1	276.6	327.2	380.0	409.6	445.5	451.8
82.3	67.5°	97.1	141.5	196.3	238.6	291.3	342.0	369.5	399.0	409.6
50.7	70°	73.9	107.7	164.7	204.8	259.7	299.8	329.3	354.7	363.1
33.8	72.5°	46.4	84.4	133.0	175.2	223.8	259.7	280.8	295.6	308.2
19.0	75°	31.7	65.4	107.7	149.9	185.8	213.2	232.2	244.9	255.5
8.4	77.5°	19.0	50.7	88.7	124.6	147.8	168.9	187.9	196.3	202.7
6.3	80°	10.6	38.0	73.9	101.3	116.1	130.9	145.7	156.2	160.5
4.2	82.5°	6.3	29.6	59.1	78.1	84.4	99.2	114.0	120.3	120.3
2.1	85°	4.2	21.1	40.1	57.0	61.2	71.8	76.0	80.2	84.4
2.1	87.5°	4.2	12.7	25.3	31.7	33.8	38.0	40.1	44.3	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
66240.8
64064.2
60012.8
53590.6
46640.5
38311.8
29242.2
20949.4
15217.5
11085.9
7530.6
4748.1
3031.7
2134.4
1621.4
1296.3
1087.3
941.6
833.9
751.6
681.9
631.2
597.5
563.7
534.1
500.4
458.1
413.8
367.3
306.1
253.3
200.6
156.2
118.2
82.3
46.4
0.0

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