

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: P637487

Luminaire Tested: **IFLD-L-SA8A-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637487
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24287.4 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

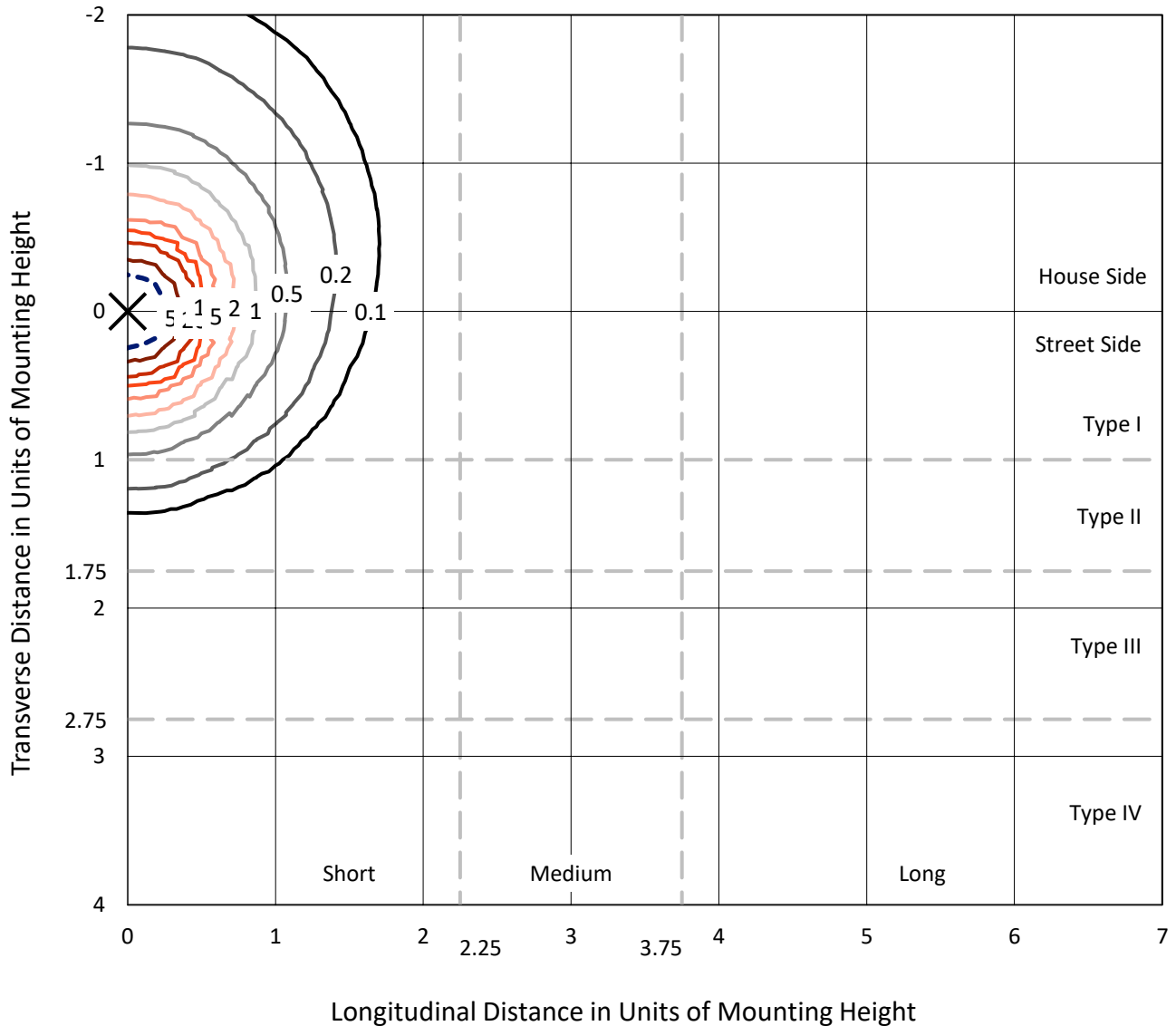
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

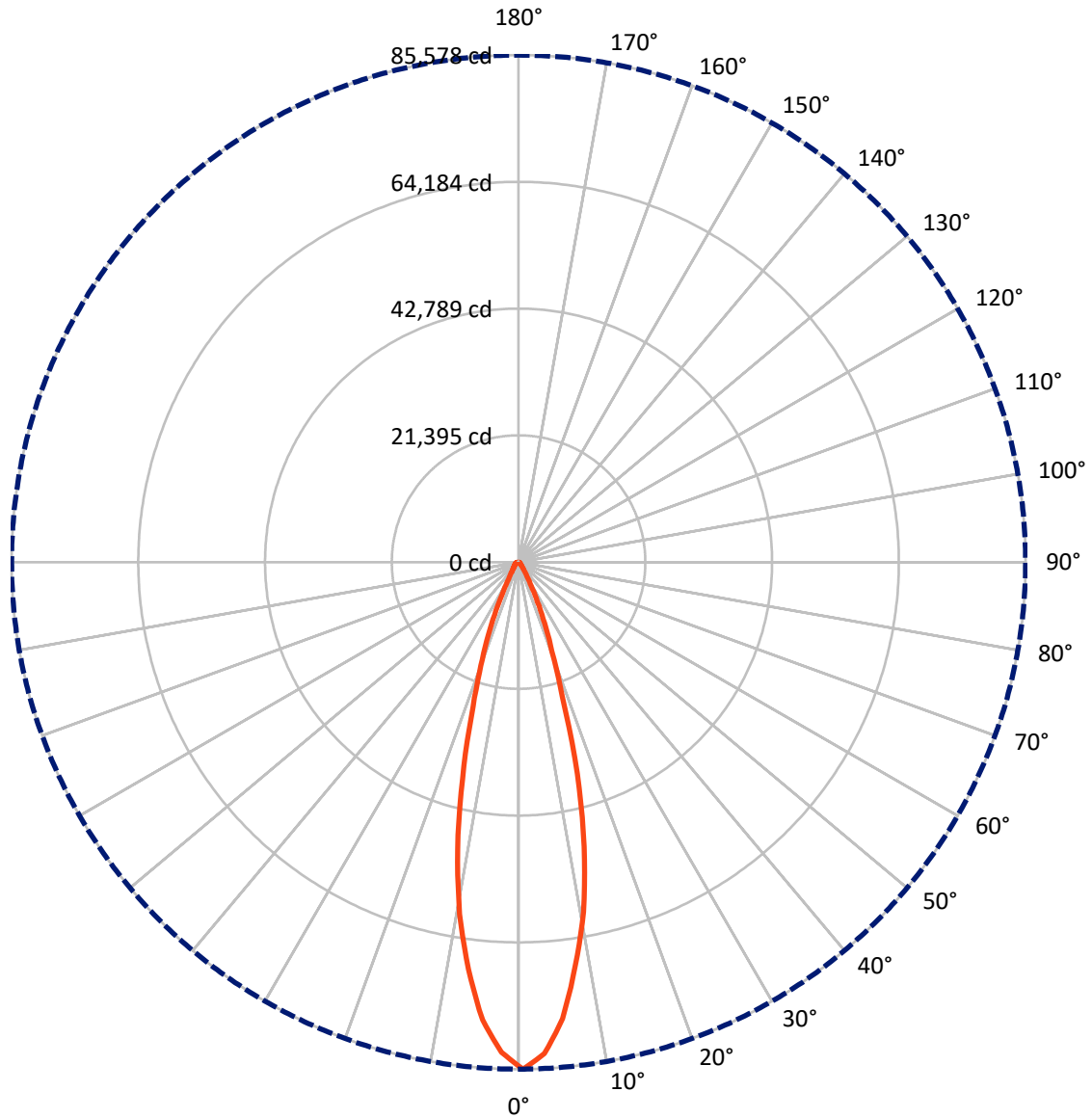
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 213.9 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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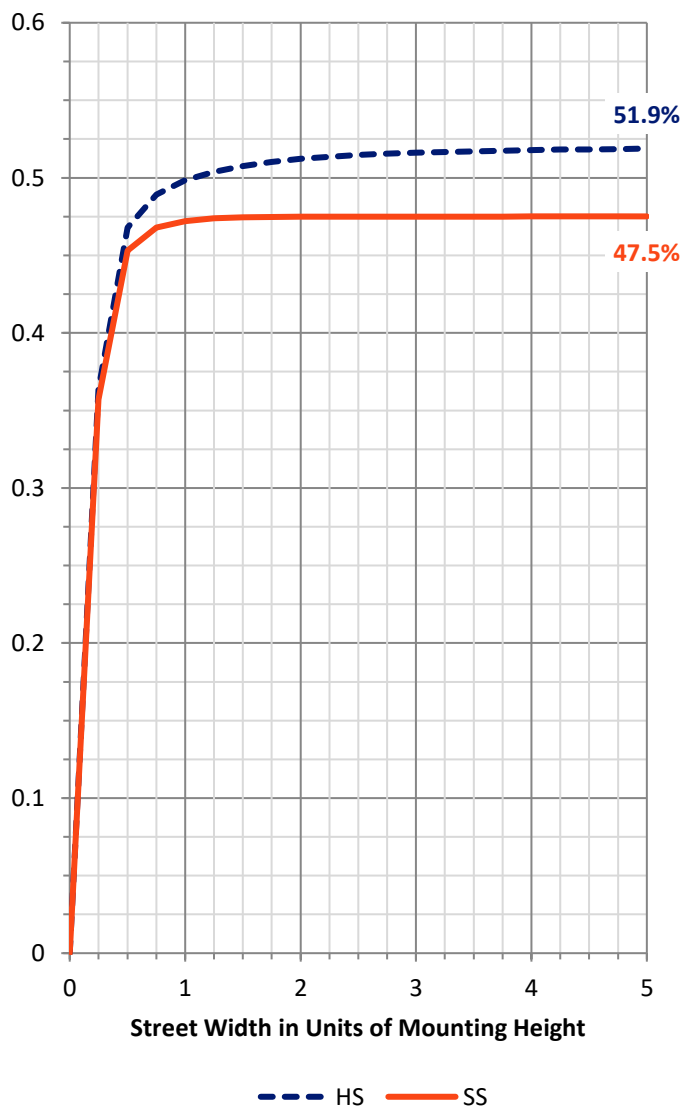
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12805.9	0.0	12805.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11481.4	0.0	11481.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	24287.4	0.0	24287.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6906.9	28.4
10°-20°	10460.5	43.1
20°-30°	4414.4	18.2
30°-40°	1151.3	4.7
40°-50°	582.3	2.4
50°-60°	380.6	1.6
60°-70°	228.0	0.9
70°-80°	120.0	0.5
80°-90°	43.3	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°	24287.4	100.0
0°-180°	24287.4	100.0



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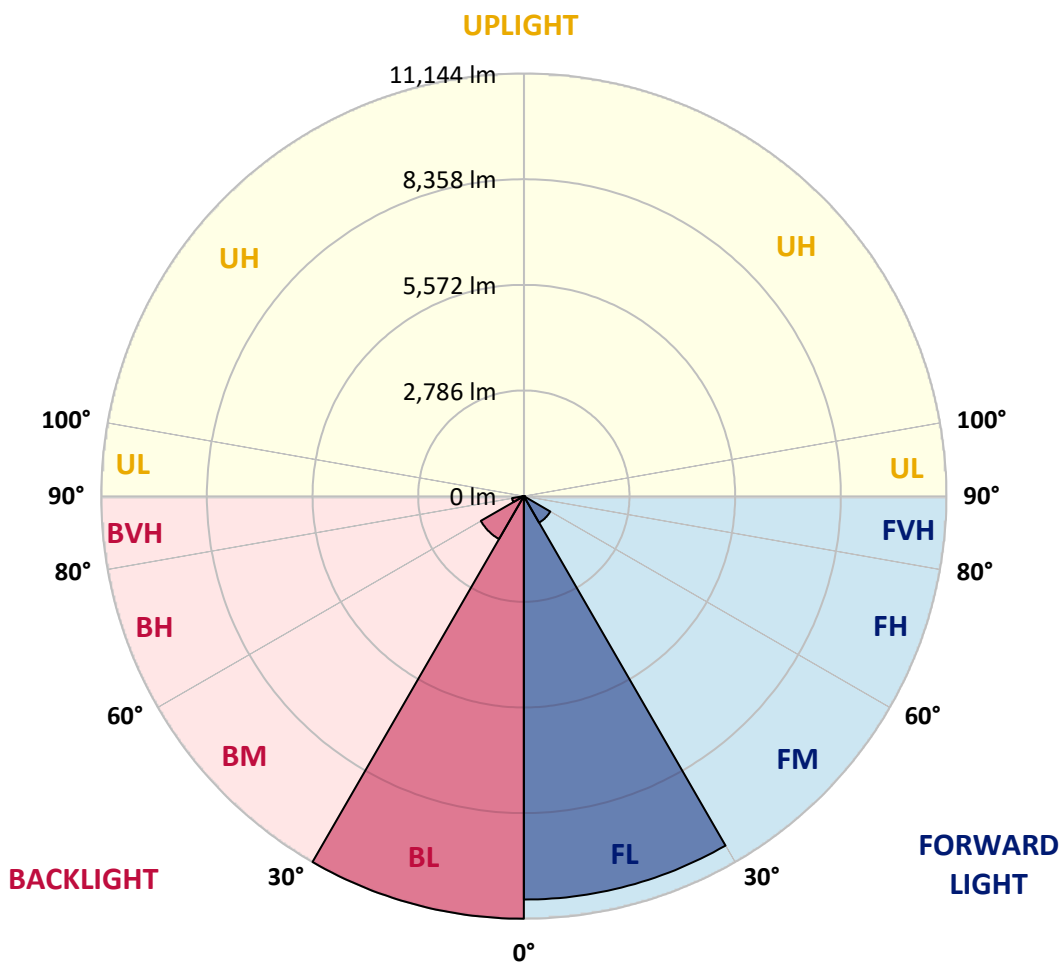
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10637.7	43.8			
FM (30°-60°)	805.6	3.3			
FH (60°-80°)	32.8	0.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	11144.1	45.9	B5		
BM (30°-60°)	1308.6	5.4	B2/2500		
BH (60°-80°)	315.2	1.3	B1/500		G0/660
BVH (80°-90°)	38.1	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°	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2
2.5°	83085.3	83131.7	82959.8	83330.8	83041.6	83816.3	83431.7	84031.7	83829.9	84165.4
5°	77412.1	77335.7	77286.6	77862.1	77695.7	78527.6	77995.8	77821.2	78361.2	78263.1
7.5°	68845.0	69046.8	68932.3	69082.3	69166.8	70116.0	70416.0	70181.5	70189.6	70326.0
10°	60062.4	59765.1	59342.3	59623.3	60217.9	60632.5	60466.1	60809.7	60733.4	61057.9
12.5°	49256.0	49490.6	49253.3	49002.4	50041.6	49927.0	50216.1	50404.3	49932.5	50982.5
15°	37102.3	37225.0	37514.1	37495.0	38294.2	38455.1	38416.9	38616.0	38247.8	38422.4
17.5°	23835.7	24250.3	25027.6	26342.3	27820.6	27992.4	27948.8	27785.1	27607.8	27411.4
20°	16010.5	15966.8	16247.8	16632.3	19692.6	20502.7	20478.1	19965.3	19223.5	19081.6
22.5°	11215.5	11297.3	11259.1	11641.0	12273.8	14507.6	14232.1	13711.2	13468.4	13310.2
25°	7377.9	7347.9	7538.8	7653.4	8196.2	8468.9	9434.4	9240.8	8867.1	8908.0
27.5°	4497.7	4535.8	4606.8	4704.9	5089.5	5002.2	5553.2	5626.8	5506.8	5378.6
30°	2760.2	2787.5	2844.8	2915.7	3049.4	2953.9	3106.6	3371.2	3327.6	3237.5
32.5°	1873.8	1876.5	1917.4	1944.7	1928.3	1838.3	1887.4	2138.4	2143.8	2135.6
35°	1347.4	1347.4	1385.6	1407.4	1361.0	1287.4	1295.6	1451.0	1519.2	1532.9
37.5°	930.1	932.8	998.3	1063.7	1011.9	992.8	960.1	1063.7	1172.8	1189.2
40°	706.4	703.7	736.4	785.5	791.0	755.5	766.4	831.9	943.7	957.4
42.5°	572.8	575.5	591.9	586.4	589.1	635.5	651.9	681.9	785.5	810.1
45°	482.8	485.5	493.7	466.4	455.5	526.4	548.2	564.6	651.9	681.9
47.5°	398.2	403.7	411.9	381.9	376.4	422.8	460.9	477.3	553.7	586.4
50°	286.4	291.8	321.8	305.5	321.8	332.8	384.6	409.1	460.9	504.6
52.5°	207.3	212.7	220.9	223.7	264.6	270.0	308.2	346.4	370.9	420.0
55°	163.7	169.1	163.7	158.2	193.7	223.7	237.3	278.2	297.3	354.6
57.5°	92.7	98.2	106.4	122.7	128.2	171.8	185.5	220.9	237.3	291.8
60°	16.4	19.1	30.0	73.6	90.0	109.1	139.1	169.1	190.9	229.1
62.5°	2.7	2.7	5.5	16.4	51.8	76.4	100.9	120.0	139.1	174.6
65°	0.0	0.0	2.7	5.5	13.6	43.6	54.6	70.9	95.5	125.5
67.5°	0.0	0.0	2.7	5.5	8.2	16.4	24.5	43.6	54.6	84.6
70°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	19.1	32.7	51.8
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	16.4	16.4	32.7
75°	0.0	0.0	2.7	5.5	8.2	13.6	16.4	16.4	13.6	13.6
77.5°	0.0	0.0	2.7	5.5	10.9	16.4	19.1	16.4	10.9	10.9
80°	0.0	0.0	5.5	8.2	13.6	19.1	24.5	19.1	10.9	5.5
82.5°	0.0	0.0	5.5	10.9	13.6	21.8	30.0	24.5	10.9	5.5
85°	0.0	0.0	2.7	8.2	16.4	21.8	30.0	21.8	10.9	2.7
87.5°	0.0	0.0	2.7	2.7	5.5	8.2	16.4	13.6	5.5	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°
85578.2	0°	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2	85578.2
83529.9	2.5°	84009.9	84446.3	84536.3	84416.3	84590.9	84277.2	84037.2	83415.3	83041.6
78233.1	5°	78737.6	78672.2	79127.7	79277.7	79258.6	79018.6	78683.1	78306.7	77941.2
70061.4	7.5°	70497.8	70582.4	70997.0	71261.5	71127.9	70827.9	70596.0	70312.4	70066.9
61175.2	10°	61734.4	61153.4	61668.9	61668.9	62026.2	61178.0	61257.1	60542.4	60575.2
50963.4	12.5°	51138.0	51348.0	51432.6	51675.3	51258.0	50808.0	50257.0	50147.9	49807.0
38089.6	15°	38637.8	39237.9	38722.4	39603.4	39177.9	38708.8	38624.2	37778.7	38046.0
27626.9	17.5°	27490.5	28153.3	28360.6	28865.2	28477.9	28199.7	27847.8	27591.4	27572.4
19340.7	20°	19493.5	20159.0	20311.7	20917.2	20873.6	20786.3	20489.0	20164.5	19812.6
13165.7	22.5°	13364.8	13907.6	14414.9	15230.4	15216.8	14960.4	14930.4	14472.1	14480.3
8894.4	25°	8987.1	9382.6	9502.6	10337.2	10430.0	10402.7	10247.2	9821.7	9982.7
5433.2	27.5°	5438.6	5785.0	6191.4	6486.0	6764.2	6720.6	6565.1	6327.8	6224.2
3264.8	30°	3352.1	3507.6	3657.6	4012.2	4178.5	4265.8	4192.2	3971.2	3987.6
2149.3	32.5°	2195.6	2326.6	2435.7	2659.3	2746.6	2907.5	2877.5	2831.2	2776.6
1546.5	35°	1601.0	1696.5	1770.2	1873.8	1985.6	2122.0	2143.8	2124.7	2102.9
1194.6	37.5°	1221.9	1320.1	1404.7	1448.3	1535.6	1642.0	1702.0	1699.2	1682.9
973.7	40°	992.8	1066.5	1142.8	1200.1	1260.1	1339.2	1412.8	1421.0	1421.0
818.3	42.5°	829.2	891.9	968.3	1028.3	1071.9	1145.6	1221.9	1227.4	1221.9
692.8	45°	709.2	763.7	837.3	908.3	943.7	998.3	1071.9	1088.3	1077.4
594.6	47.5°	616.4	665.5	728.2	804.6	842.8	891.9	960.1	979.2	976.4
512.8	50°	529.1	586.4	649.1	711.9	761.0	807.3	872.8	894.6	886.4
436.4	52.5°	466.4	518.2	572.8	641.0	698.2	739.2	791.0	829.2	818.3
368.2	55°	390.0	452.8	510.0	567.3	638.2	681.9	731.0	777.3	766.4
310.9	57.5°	338.2	390.0	455.5	507.3	578.2	630.1	679.1	728.2	725.5
253.7	60°	283.7	338.2	400.9	455.5	521.0	578.2	627.3	681.9	687.3
190.9	62.5°	223.7	289.1	343.7	406.4	471.9	534.6	578.2	632.8	641.0
144.6	65°	169.1	237.3	297.3	357.3	422.8	491.0	529.1	575.5	583.7
106.4	67.5°	125.5	182.7	253.7	308.2	376.4	441.9	477.3	515.5	529.1
65.5	70°	95.5	139.1	212.7	264.6	335.5	387.3	425.5	458.2	469.1
43.6	72.5°	60.0	109.1	171.8	226.4	289.1	335.5	362.8	381.9	398.2
24.5	75°	40.9	84.6	139.1	193.7	240.0	275.5	300.0	316.4	330.0
10.9	77.5°	24.5	65.5	114.6	160.9	190.9	218.2	242.7	253.7	261.8
8.2	80°	13.6	49.1	95.5	130.9	150.0	169.1	188.2	201.8	207.3
5.5	82.5°	8.2	38.2	76.4	100.9	109.1	128.2	147.3	155.5	155.5
2.7	85°	5.5	27.3	51.8	73.6	79.1	92.7	98.2	103.6	109.1
2.7	87.5°	5.5	16.4	32.7	40.9	43.6	49.1	51.8	57.3	62.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
85578.2
82766.2
77532.1
69235.0
60256.1
49496.0
37778.7
27065.0
19659.9
14322.1
9729.0
6134.2
3916.7
2757.5
2094.7
1674.7
1404.7
1216.5
1077.4
971.0
881.0
815.5
771.9
728.2
690.1
646.4
591.9
534.6
474.6
395.5
327.3
259.1
201.8
152.7
106.4
60.0
0.0

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