

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: P637488

Luminaire Tested: **IFLD-L-SA8B-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637488
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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: 28855 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

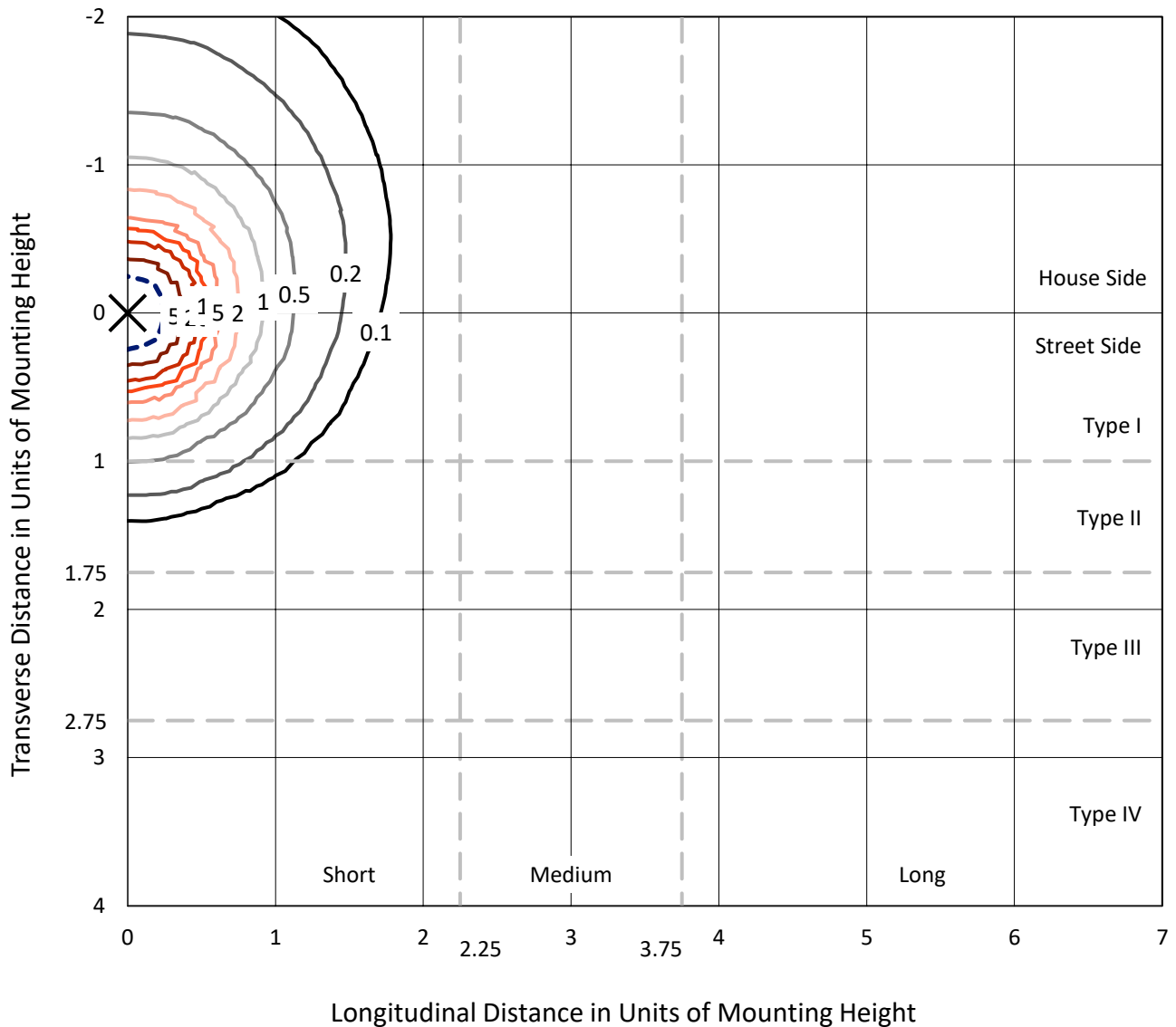
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637488
 CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

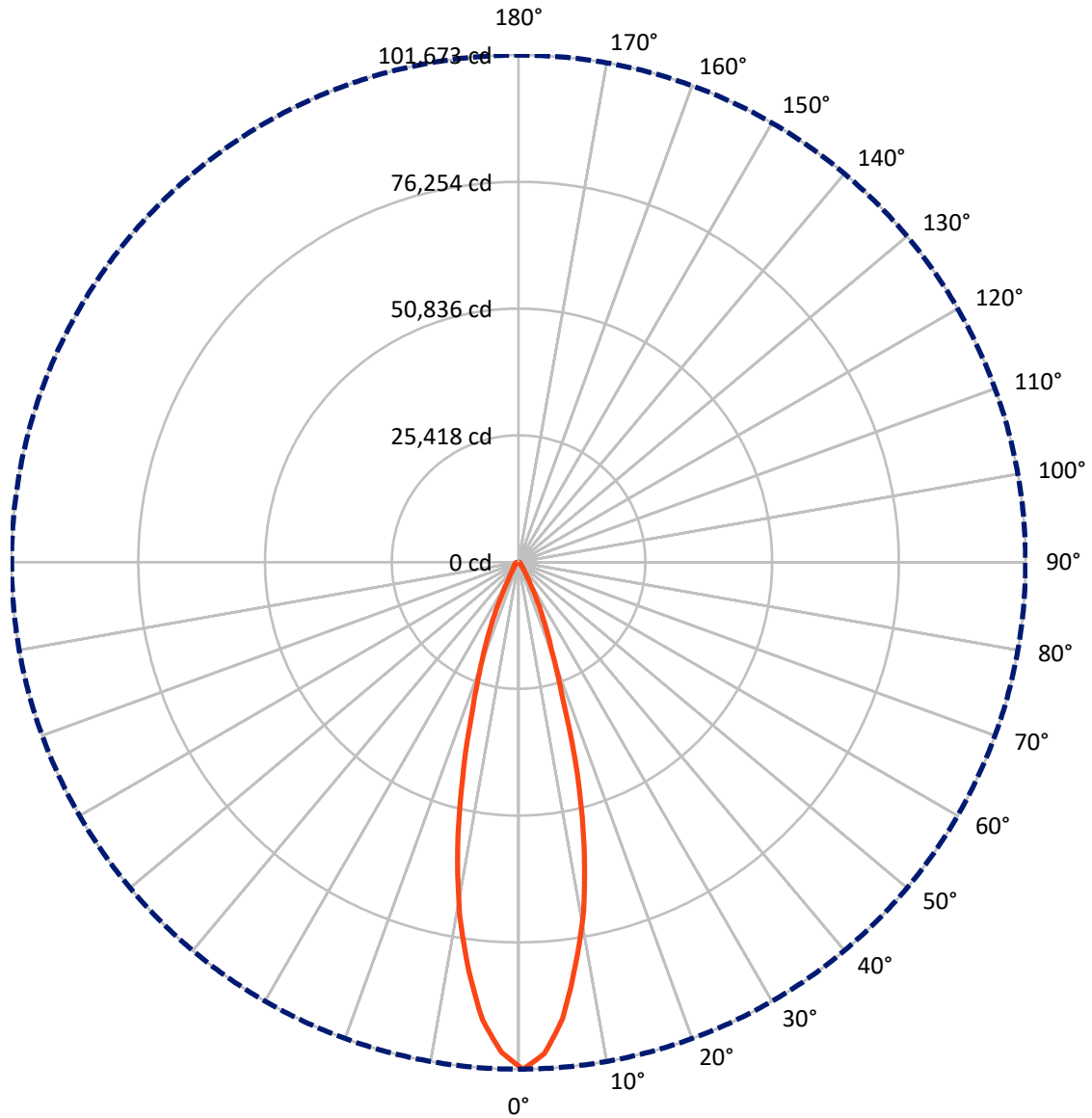
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 254.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637488
CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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 CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

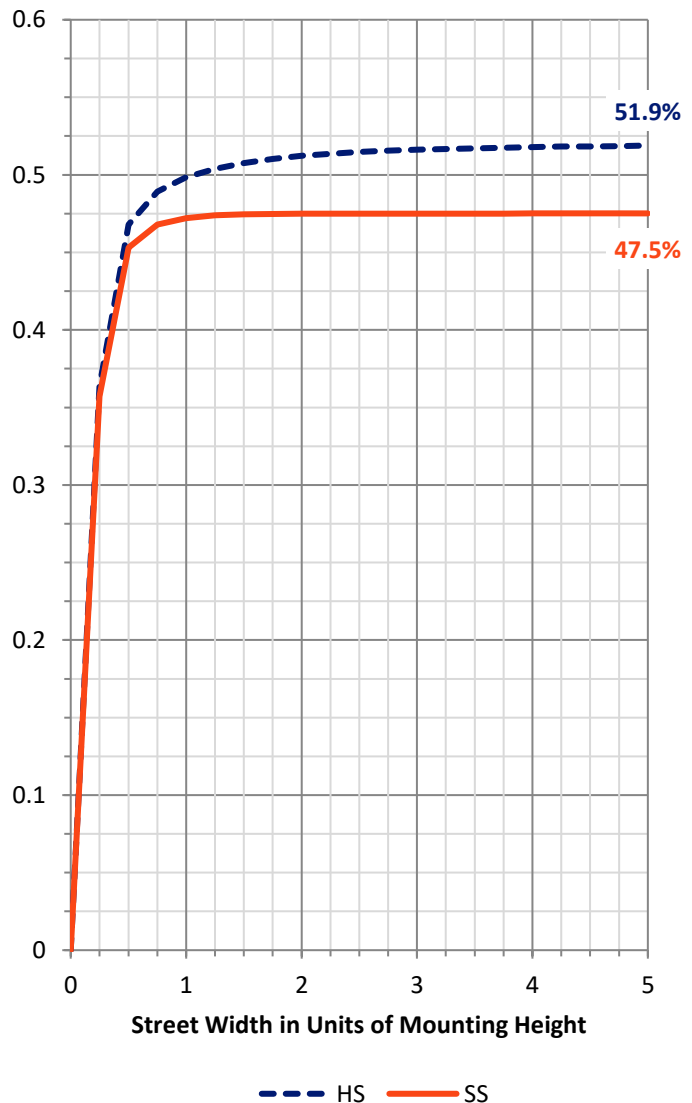
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15214.3	0.0	15214.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	13640.7	0.0	13640.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	28855.0	0.0	28855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8205.9	28.4
10°-20°	12427.7	43.1
20°-30°	5244.6	18.2
30°-40°	1367.8	4.7
40°-50°	691.8	2.4
50°-60°	452.2	1.6
60°-70°	270.9	0.9
70°-80°	142.5	0.5
80°-90°	51.5	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°	28855.0	100.0
0°-180°	28855.0	100.0



REPORT NUMBER: P637488

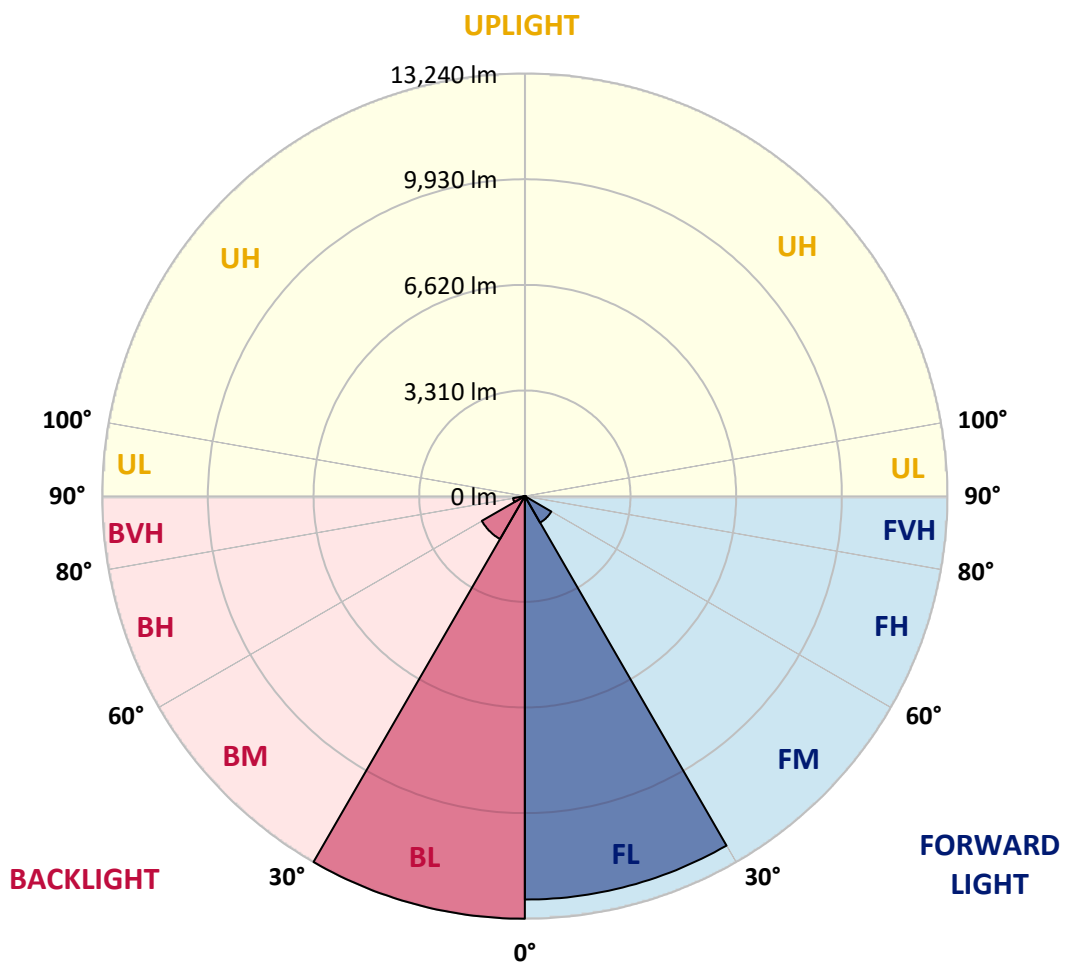
CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12638.3	43.8			
FM (30°-60°)	957.1	3.3			
FH (60°-80°)	39.0	0.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	13239.9	45.9	B5		
BM (30°-60°)	1554.7	5.4	B2/2500		
BH (60°-80°)	374.4	1.3	B1/500		G0/660
BVH (80°-90°)	45.2	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





REPORT NUMBER: P637488
 CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6
2.5°	98710.8	98765.9	98561.8	99002.5	98659.0	99579.3	99122.4	99835.3	99595.5	99994.1
5°	91970.7	91879.9	91821.6	92505.4	92307.7	93296.0	92664.1	92456.7	93098.4	92981.7
7.5°	81792.4	82032.2	81896.1	82074.3	82174.8	83302.5	83658.9	83380.2	83389.9	83552.0
10°	71358.1	71004.9	70502.6	70836.4	71542.8	72035.4	71837.7	72246.0	72155.3	72540.9
12.5°	58519.4	58798.1	58516.2	58218.1	59452.7	59316.6	59660.1	59883.7	59323.1	60570.6
15°	44079.9	44225.8	44569.3	44546.6	45496.0	45687.2	45641.8	45878.4	45440.9	45648.3
17.5°	28318.4	28810.9	29734.4	31296.3	33052.7	33256.8	33205.0	33010.5	32799.9	32566.6
20°	19021.5	18969.6	19303.4	19760.3	23396.1	24358.5	24329.4	23720.2	22838.7	22670.2
22.5°	13324.8	13422.0	13376.6	13830.3	14582.1	17236.0	16908.7	16289.8	16001.4	15813.4
25°	8765.4	8729.8	8956.6	9092.7	9737.6	10061.6	11208.7	10978.7	10534.7	10583.3
27.5°	5343.5	5388.9	5473.1	5589.8	6046.7	5943.0	6597.6	6685.1	6542.5	6390.2
30°	3279.3	3311.7	3379.8	3464.0	3622.8	3509.4	3690.9	4005.2	3953.4	3846.4
32.5°	2226.2	2229.4	2278.0	2310.4	2291.0	2184.1	2242.4	2540.5	2547.0	2537.3
35°	1600.8	1600.8	1646.2	1672.1	1617.0	1529.5	1539.2	1723.9	1804.9	1821.1
37.5°	1105.0	1108.2	1186.0	1263.8	1202.2	1179.5	1140.6	1263.8	1393.4	1412.8
40°	839.3	836.0	874.9	933.3	939.7	897.6	910.6	988.3	1121.2	1137.4
42.5°	680.5	683.7	703.2	696.7	699.9	755.0	774.5	810.1	933.3	962.4
45°	573.6	576.8	586.5	554.1	541.2	625.4	651.3	670.8	774.5	810.1
47.5°	473.1	479.6	489.3	453.7	447.2	502.3	547.6	567.1	657.8	696.7
50°	340.2	346.7	382.4	362.9	382.4	395.3	456.9	486.1	547.6	599.5
52.5°	246.3	252.8	262.5	265.7	314.3	320.8	366.2	411.5	440.7	499.0
55°	194.4	200.9	194.4	187.9	230.1	265.7	281.9	330.5	353.2	421.3
57.5°	110.2	116.7	126.4	145.8	152.3	204.1	220.4	262.5	281.9	346.7
60°	19.4	22.7	35.6	87.5	106.9	129.6	165.3	200.9	226.8	272.2
62.5°	3.2	3.2	6.5	19.4	61.6	90.7	119.9	142.6	165.3	207.4
65°	0.0	0.0	3.2	6.5	16.2	51.8	64.8	84.3	113.4	149.1
67.5°	0.0	0.0	3.2	6.5	9.7	19.4	29.2	51.8	64.8	100.5
70°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	22.7	38.9	61.6
72.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	19.4	19.4	38.9
75°	0.0	0.0	3.2	6.5	9.7	16.2	19.4	19.4	16.2	16.2
77.5°	0.0	0.0	3.2	6.5	13.0	19.4	22.7	19.4	13.0	13.0
80°	0.0	0.0	6.5	9.7	16.2	22.7	29.2	22.7	13.0	6.5
82.5°	0.0	0.0	6.5	13.0	16.2	25.9	35.6	29.2	13.0	6.5
85°	0.0	0.0	3.2	9.7	19.4	25.9	35.6	25.9	13.0	3.2
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	19.4	16.2	6.5	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637488
 CATALOG NUMBER: IFLD-L-SA8B-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
101672.6	0°	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6	101672.6
99239.0	2.5°	99809.3	100327.8	100434.8	100292.2	100499.6	100126.9	99841.7	99102.9	98659.0
92946.1	5°	93545.5	93467.8	94008.9	94187.1	94164.5	93879.3	93480.7	93033.5	92599.3
83237.6	7.5°	83756.1	83856.6	84349.1	84663.4	84504.7	84148.2	83872.8	83535.8	83244.1
72680.2	10°	73344.5	72654.3	73266.8	73266.8	73691.3	72683.5	72777.4	71928.4	71967.3
60548.0	12.5°	60755.3	61004.9	61105.3	61393.7	60897.9	60363.3	59708.7	59579.1	59174.0
45253.0	15°	45904.3	46617.2	46004.8	47051.4	46545.9	45988.6	45888.1	44883.6	45201.1
32822.6	17.5°	32660.6	33448.0	33694.3	34293.8	33833.6	33503.1	33085.1	32780.5	32757.8
22978.1	20°	23159.6	23950.2	24131.7	24851.1	24799.2	24695.5	24342.3	23956.7	23538.7
15641.7	22.5°	15878.2	16523.1	17125.8	18094.7	18078.5	17773.9	17738.3	17193.9	17203.6
10567.1	25°	10677.3	11147.2	11289.8	12281.3	12391.5	12359.1	12174.4	11668.9	11860.1
6455.0	27.5°	6461.5	6873.0	7355.8	7705.8	8036.3	7984.5	7799.8	7517.9	7394.7
3878.8	30°	3982.5	4167.2	4345.5	4766.7	4964.4	5068.1	4980.6	4718.1	4737.5
2553.5	32.5°	2608.6	2764.1	2893.7	3159.4	3263.1	3454.3	3418.7	3363.6	3298.8
1837.3	35°	1902.1	2015.6	2103.1	2226.2	2359.1	2521.1	2547.0	2524.3	2498.4
1419.3	37.5°	1451.7	1568.4	1668.8	1720.7	1824.4	1950.8	2022.0	2018.8	1999.4
1156.8	40°	1179.5	1267.0	1357.8	1425.8	1497.1	1591.1	1678.6	1688.3	1688.3
972.1	42.5°	985.1	1059.6	1150.4	1221.7	1273.5	1361.0	1451.7	1458.2	1451.7
823.1	45°	842.5	907.3	994.8	1079.1	1121.2	1186.0	1273.5	1292.9	1280.0
706.4	47.5°	732.3	790.7	865.2	955.9	1001.3	1059.6	1140.6	1163.3	1160.1
609.2	50°	628.6	696.7	771.2	845.8	904.1	959.2	1036.9	1062.9	1053.1
518.5	52.5°	554.1	615.7	680.5	761.5	829.6	878.2	939.7	985.1	972.1
437.5	55°	463.4	537.9	606.0	674.0	758.3	810.1	868.4	923.5	910.6
369.4	57.5°	401.8	463.4	541.2	602.7	687.0	748.5	806.9	865.2	862.0
301.4	60°	337.0	401.8	476.3	541.2	618.9	687.0	745.3	810.1	816.6
226.8	62.5°	265.7	343.5	408.3	482.8	560.6	635.1	687.0	751.8	761.5
171.7	65°	200.9	281.9	353.2	424.5	502.3	583.3	628.6	683.7	693.5
126.4	67.5°	149.1	217.1	301.4	366.2	447.2	525.0	567.1	612.4	628.6
77.8	70°	113.4	165.3	252.8	314.3	398.6	460.1	505.5	544.4	557.4
51.8	72.5°	71.3	129.6	204.1	269.0	343.5	398.6	431.0	453.7	473.1
29.2	75°	48.6	100.5	165.3	230.1	285.2	327.3	356.5	375.9	392.1
13.0	77.5°	29.2	77.8	136.1	191.2	226.8	259.2	288.4	301.4	311.1
9.7	80°	16.2	58.3	113.4	155.5	178.2	200.9	223.6	239.8	246.3
6.5	82.5°	9.7	45.4	90.7	119.9	129.6	152.3	175.0	184.7	184.7
3.2	85°	6.5	32.4	61.6	87.5	94.0	110.2	116.7	123.1	129.6
3.2	87.5°	6.5	19.4	38.9	48.6	51.8	58.3	61.6	68.0	74.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
101672.6
98331.7
92113.3
82255.8
71588.2
58804.6
44883.6
32155.1
23357.2
17015.6
11558.7
7287.8
4653.3
3276.1
2488.7
1989.6
1668.8
1445.2
1280.0
1153.6
1046.7
968.9
917.0
865.2
819.8
768.0
703.2
635.1
563.8
469.9
388.9
307.8
239.8
181.5
126.4
71.3
0.0

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