

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: P637866

Luminaire Tested: **IFLD-L-SA8C-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38901.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

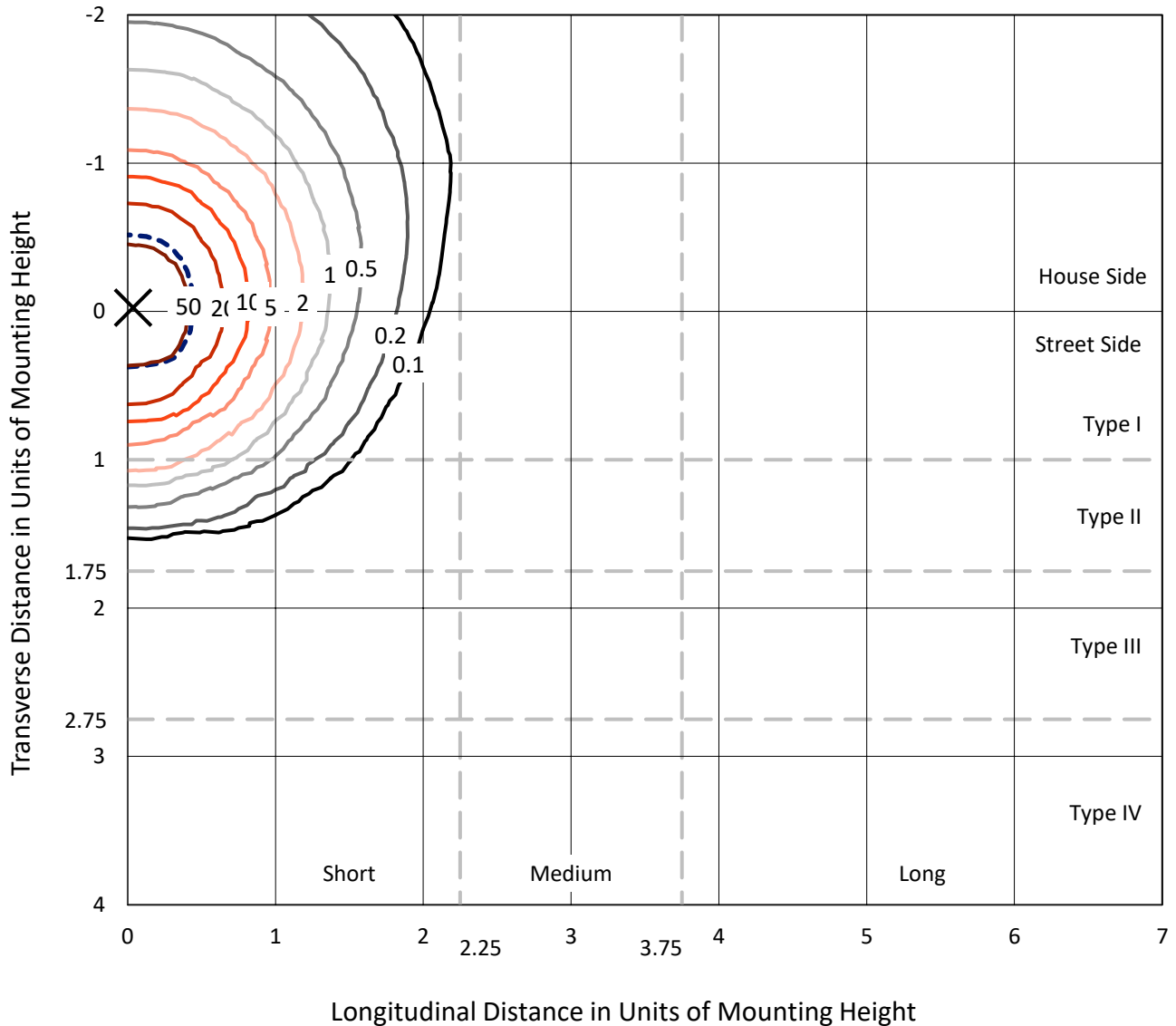
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

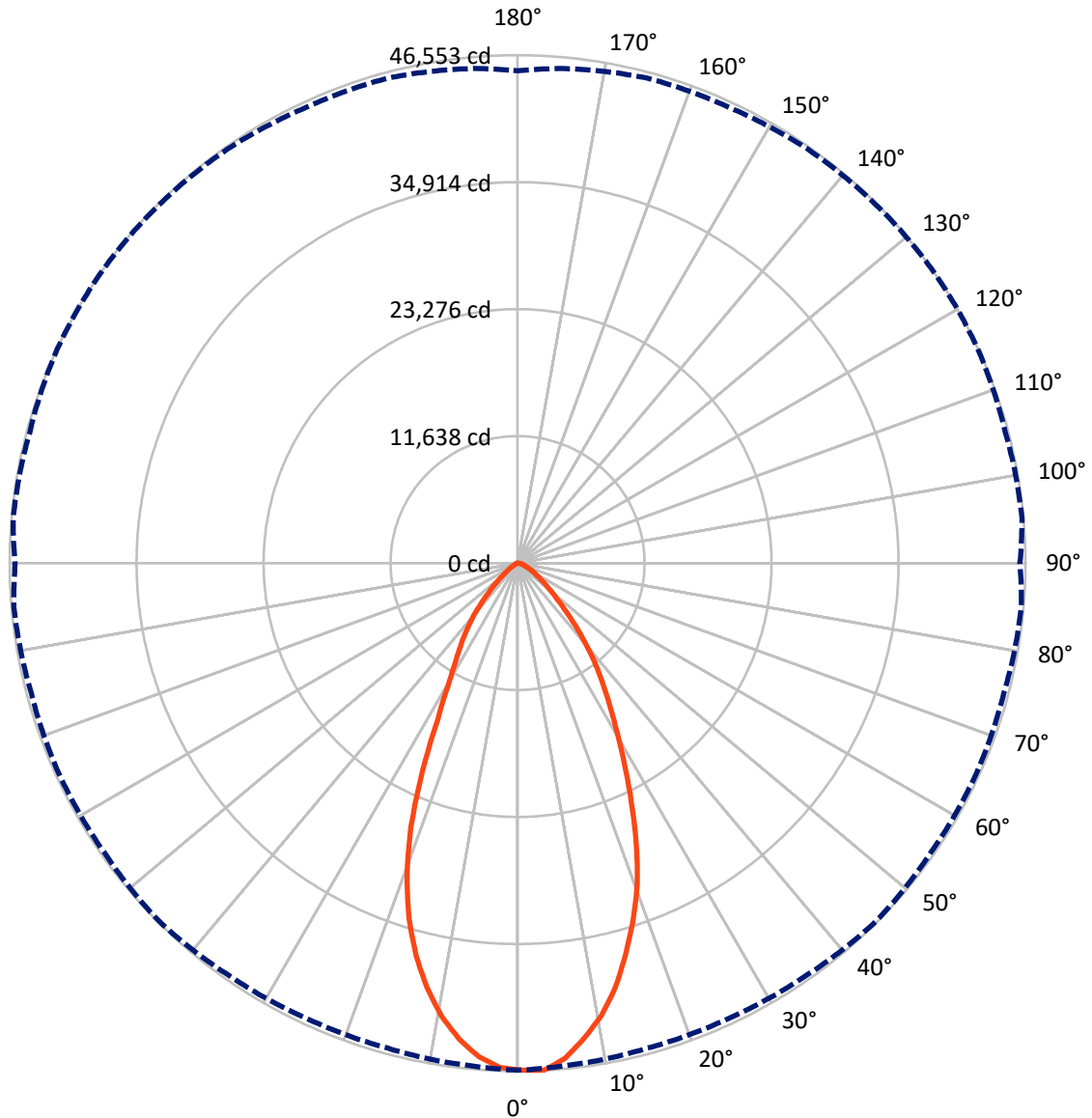
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 116.2 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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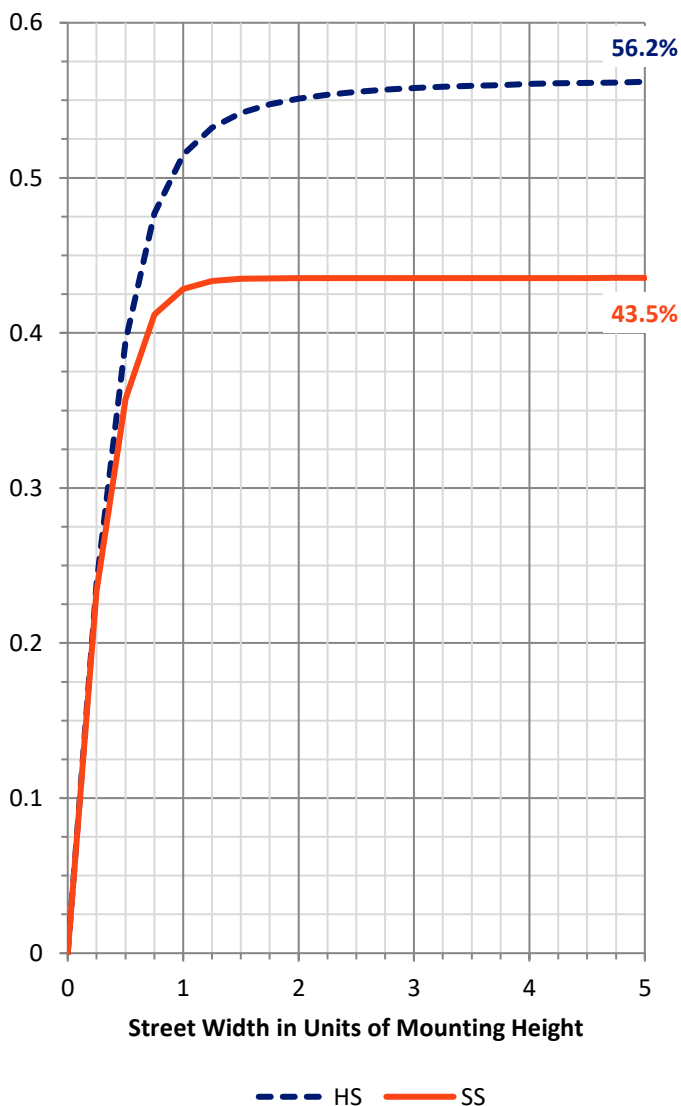
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22074.1	0.0	22074.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16827.2	0.0	16827.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	38901.3	0.0	38901.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4220.3	10.8
10°-20°	10060.3	25.9
20°-30°	10246.3	26.3
30°-40°	7640.6	19.6
40°-50°	3991.7	10.3
50°-60°	1678.9	4.3
60°-70°	685.7	1.8
70°-80°	288.6	0.7
80°-90°	88.9	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°	38901.3	100.0
0°-180°	38901.3	100.0



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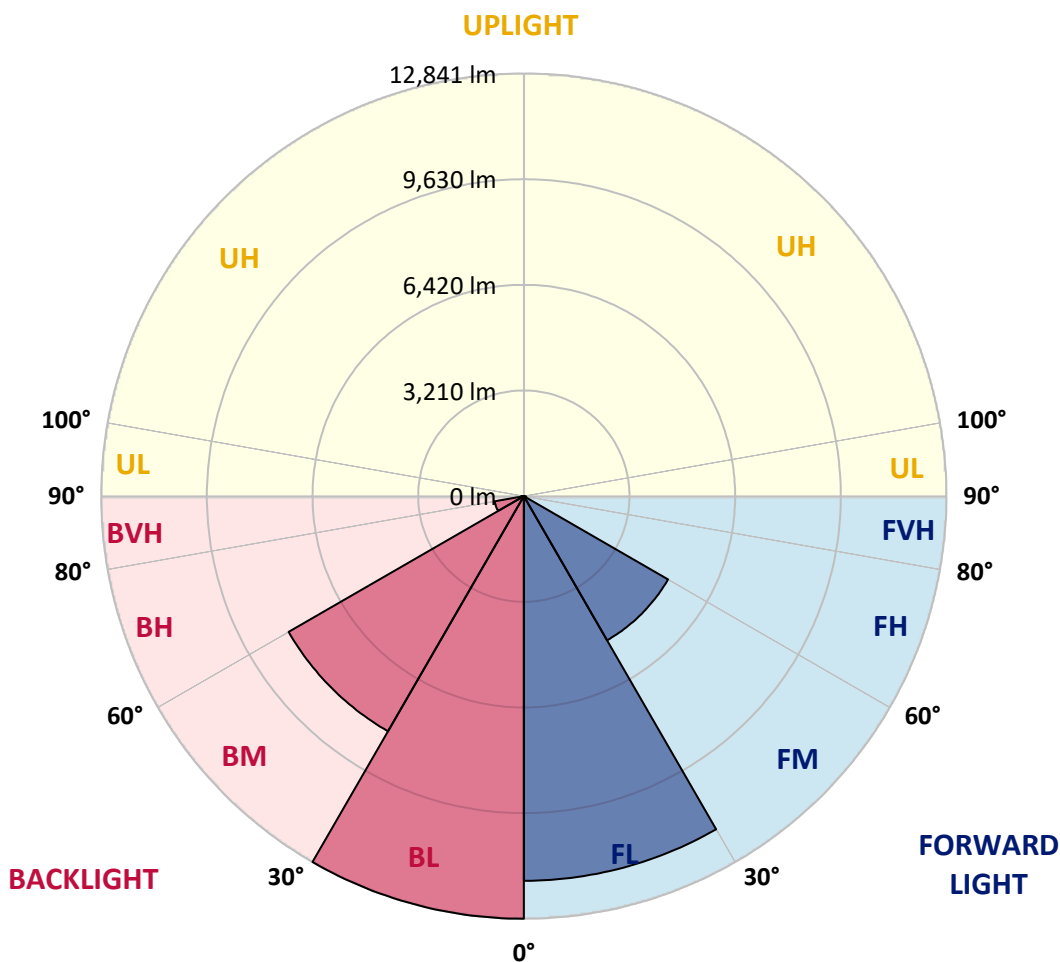
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11686.4	30.0			
FM (30°-60°)	5059.3	13.0			
FH (60°-80°)	73.2	0.2			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	12840.5	33.0	B5		
BM (30°-60°)	8251.9	21.2	B4/8500		
BH (60°-80°)	901.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	80.6	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6
2.5°	46482.6	46292.7	46022.9	45997.9	46137.8	46442.6	46247.7	46257.7	46137.8	46342.7
5°	45753.0	45573.1	45388.2	45143.4	45348.3	45478.2	45378.3	45268.3	45113.4	45313.3
7.5°	44373.8	44273.9	43999.1	43889.1	44014.1	44159.0	43944.1	43914.1	43699.2	43959.1
10°	42265.1	42225.1	41955.3	41890.3	42000.2	42220.1	42125.2	42105.2	41970.3	41945.3
12.5°	40076.4	39921.5	39586.7	39566.7	39731.6	40061.4	39806.5	39561.7	39636.6	39701.6
15°	34439.7	34274.8	35104.3	36408.5	37093.1	37068.2	37143.1	36848.3	36758.3	36788.3
17.5°	27378.9	27099.0	27398.9	29417.7	32670.7	34559.6	34039.9	33405.3	33065.5	32840.6
20°	23631.1	23646.1	23591.1	24110.8	26139.6	30447.1	30322.1	29097.8	28653.1	28468.2
22.5°	21352.4	21267.5	21147.5	21312.4	21857.1	24385.6	26079.6	24955.3	24800.4	24595.5
25°	19118.7	19118.7	18973.8	19138.7	19293.6	19328.6	21027.6	21487.3	21187.5	21187.5
27.5°	17184.9	17084.9	17020.0	17094.9	16890.0	15905.6	16120.5	18474.1	18269.2	18144.3
30°	15266.0	15236.0	15126.1	15226.0	14466.5	13357.1	12907.4	15590.8	15805.7	15760.7
32.5°	12602.6	12722.5	13212.2	13367.1	12067.9	11173.4	10743.7	12942.4	13801.9	13766.9
35°	8565.0	8664.9	9224.6	11073.5	10004.1	9364.5	9239.6	10293.9	11708.1	11843.0
37.5°	6821.0	6806.0	6965.9	7295.7	8040.3	7885.4	7850.4	8125.2	9549.4	9609.3
40°	5621.7	5601.7	5596.7	5326.9	5142.0	6556.1	6461.2	6296.3	7530.6	7650.5
42.5°	4532.3	4552.3	4567.3	3977.7	3707.8	5057.0	5002.1	4832.2	5906.5	6046.4
45°	3557.9	3552.9	3582.9	2963.3	2888.3	3233.1	3737.8	3602.9	4457.4	4607.3
47.5°	1843.9	1908.9	2313.6	2293.6	2328.6	2293.6	2828.3	2793.4	3353.0	3592.9
50°	1239.3	1259.3	1294.2	1299.2	1833.9	1689.0	1918.9	2173.7	2348.6	2718.4
52.5°	959.4	974.4	884.5	829.5	1124.3	1249.3	1259.3	1504.1	1639.0	2013.8
55°	534.7	599.6	644.6	649.6	619.6	924.5	919.5	1114.3	1219.3	1469.1
57.5°	70.0	84.9	129.9	419.8	414.8	514.7	644.6	809.5	869.5	1074.4
60°	5.0	10.0	15.0	65.0	274.8	299.8	439.7	504.7	604.6	754.6
62.5°	0.0	0.0	5.0	15.0	55.0	174.9	229.9	264.8	354.8	494.7
65°	0.0	0.0	5.0	10.0	20.0	65.0	89.9	144.9	209.9	304.8
67.5°	0.0	0.0	5.0	10.0	15.0	25.0	40.0	65.0	109.9	184.9
70°	0.0	0.0	5.0	10.0	15.0	20.0	30.0	40.0	60.0	99.9
72.5°	0.0	0.0	5.0	5.0	10.0	25.0	25.0	30.0	40.0	55.0
75°	0.0	0.0	5.0	10.0	15.0	25.0	25.0	25.0	30.0	35.0
77.5°	0.0	0.0	5.0	10.0	15.0	25.0	20.0	25.0	25.0	25.0
80°	0.0	0.0	5.0	10.0	15.0	25.0	30.0	25.0	20.0	20.0
82.5°	0.0	0.0	5.0	15.0	15.0	35.0	35.0	35.0	15.0	15.0
85°	0.0	0.0	10.0	15.0	25.0	40.0	40.0	30.0	15.0	10.0
87.5°	0.0	0.0	5.0	10.0	10.0	20.0	30.0	25.0	10.0	5.0
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°
46477.6	0°	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6	46477.6
46042.9	2.5°	46412.6	46287.7	46522.6	46552.6	46452.6	46327.7	46037.9	46012.9	45508.2
45023.5	5°	45533.2	45328.3	45478.2	45578.1	45543.2	45408.2	45288.3	45178.4	44723.6
43369.4	7.5°	43894.1	43819.2	43889.1	43964.1	44109.0	43964.1	43914.1	43799.2	43349.4
41740.4	10°	42075.2	41935.3	42200.1	42165.1	42125.2	42085.2	41875.3	41895.3	41365.6
39521.7	12.5°	39841.5	39606.7	39861.5	39891.5	39861.5	39721.6	39486.7	39586.7	39102.0
36523.5	15°	36838.3	36813.3	36998.2	37118.1	37203.1	37053.2	36973.2	37023.2	36733.3
32665.7	17.5°	33150.5	33475.3	34079.9	34284.8	34289.8	34444.7	34399.7	34339.8	34124.9
28393.3	20°	28813.0	29437.6	30367.1	31321.5	31596.4	31466.5	31406.5	31516.4	31196.6
24380.6	22.5°	24810.4	25345.1	26424.4	27818.6	28623.1	28703.1	28688.1	28593.1	28468.2
21167.5	25°	21412.4	21887.1	22921.5	24195.7	25739.8	25969.7	25979.7	25949.7	25839.8
18254.2	27.5°	18544.1	19118.7	19688.4	20827.7	22471.8	23421.2	23301.3	23266.3	23226.3
15795.7	30°	15945.6	16670.2	17204.9	17914.4	19388.6	20672.8	20797.7	20737.8	20642.8
13761.9	32.5°	13886.8	14316.6	14996.2	15475.9	16535.3	17989.4	18469.1	18424.1	18339.2
11928.0	35°	12097.9	12267.8	12802.5	13337.1	14041.7	15450.9	16160.5	16060.5	16045.5
9719.3	37.5°	9964.1	10533.8	10828.6	11368.3	11863.0	12957.4	13936.8	13891.8	13896.8
7815.4	40°	8045.3	8375.1	8959.7	9414.5	9869.2	10668.7	11758.1	11788.1	11778.1
6051.4	42.5°	6176.4	6496.2	7110.8	7605.5	8010.3	8505.0	9544.4	9579.4	9624.3
4712.2	45°	4822.2	5027.0	5476.8	5991.5	6421.2	6721.0	7510.6	7735.4	7740.4
3652.8	47.5°	3742.8	3977.7	4297.5	4792.2	5211.9	5426.8	6001.5	6306.3	6291.3
2803.3	50°	2938.3	3153.1	3413.0	3802.8	4257.5	4427.4	4852.1	5152.0	5137.0
2113.8	52.5°	2248.7	2523.5	2753.4	3053.2	3497.9	3642.9	3947.7	4292.5	4242.5
1549.1	55°	1704.0	1983.8	2198.7	2448.6	2853.3	3038.2	3248.1	3522.9	3532.9
1199.3	57.5°	1284.2	1574.1	1769.0	2023.8	2328.6	2533.5	2693.4	2988.2	2983.2
819.5	60°	919.5	1169.3	1404.2	1669.0	1903.9	2138.7	2248.7	2528.5	2538.5
579.7	62.5°	664.6	899.5	1124.3	1354.2	1564.1	1793.9	1893.9	2113.8	2143.7
379.8	65°	464.7	629.6	889.5	1064.4	1299.2	1469.1	1599.1	1788.9	1823.9
224.9	67.5°	299.8	454.7	704.6	859.5	1074.4	1219.3	1354.2	1504.1	1549.1
144.9	70°	179.9	344.8	524.7	689.6	884.5	1014.4	1144.3	1274.2	1299.2
70.0	72.5°	114.9	239.9	379.8	559.7	709.6	849.5	964.4	1059.4	984.4
45.0	75°	65.0	164.9	299.8	439.7	574.7	709.6	804.5	854.5	684.6
30.0	77.5°	40.0	119.9	244.9	354.8	444.7	569.7	629.6	659.6	489.7
20.0	80°	25.0	89.9	204.9	289.8	289.8	419.8	489.7	514.7	354.8
15.0	82.5°	20.0	65.0	159.9	219.9	194.9	314.8	384.8	389.8	249.9
10.0	85°	15.0	50.0	99.9	144.9	134.9	219.9	224.9	249.9	164.9
10.0	87.5°	10.0	30.0	60.0	84.9	75.0	104.9	119.9	134.9	89.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
46477.6
45113.4
44358.9
43254.5
41185.7
38962.0
36383.6
33805.1
30966.7
28228.4
25470.0
22991.4
20522.9
18114.3
15880.6
13736.9
11603.2
9474.4
7610.5
6236.3
5137.0
4247.5
3532.9
2973.2
2513.5
2133.7
1813.9
1544.1
1279.2
914.5
649.6
459.7
329.8
229.9
149.9
80.0
0.0

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