

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: P637876

Luminaire Tested: **IFLD-S-SA3D-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19383.5 lumens
Efficiency: N/A
Efficacy: 105.3 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

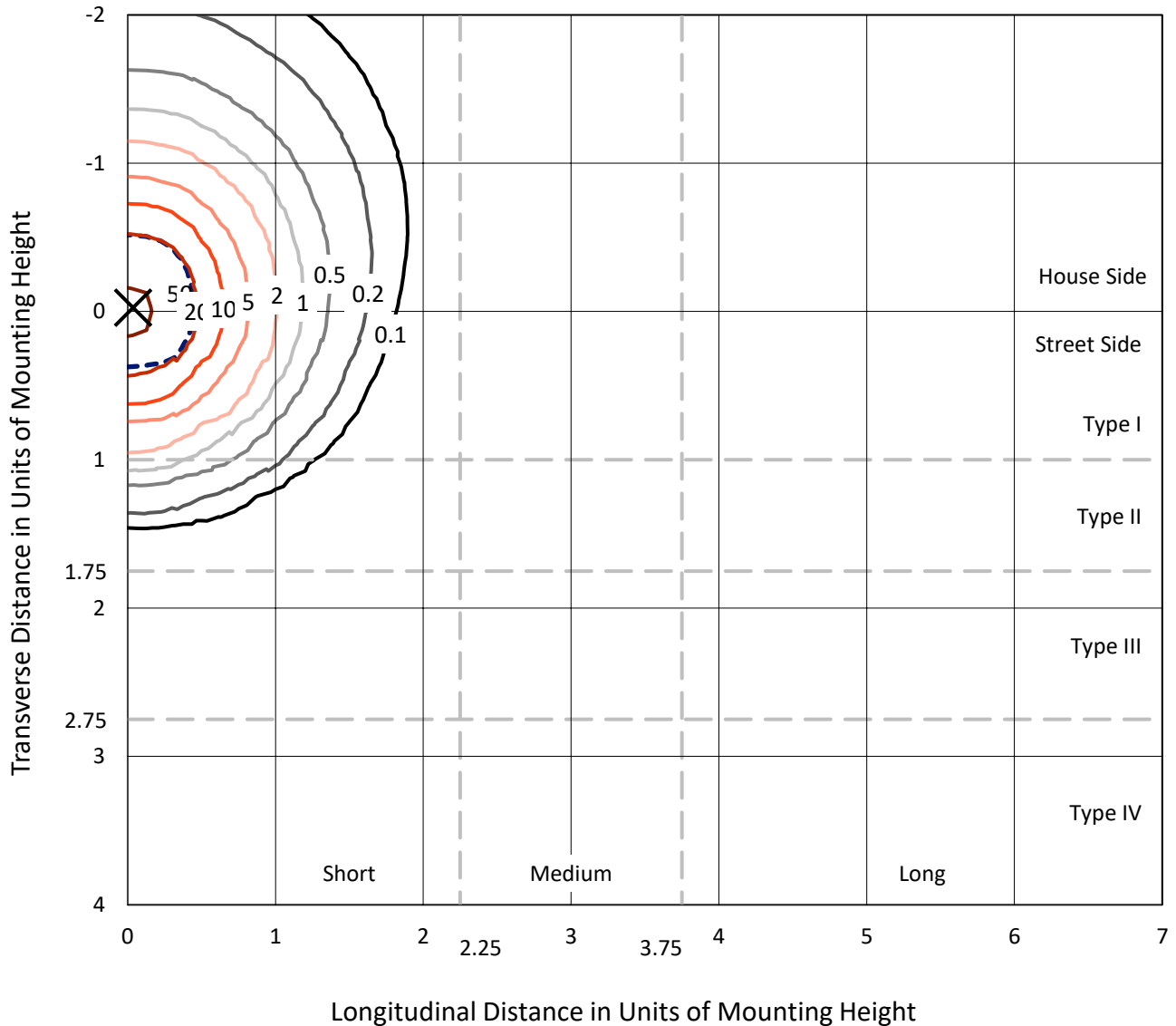
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

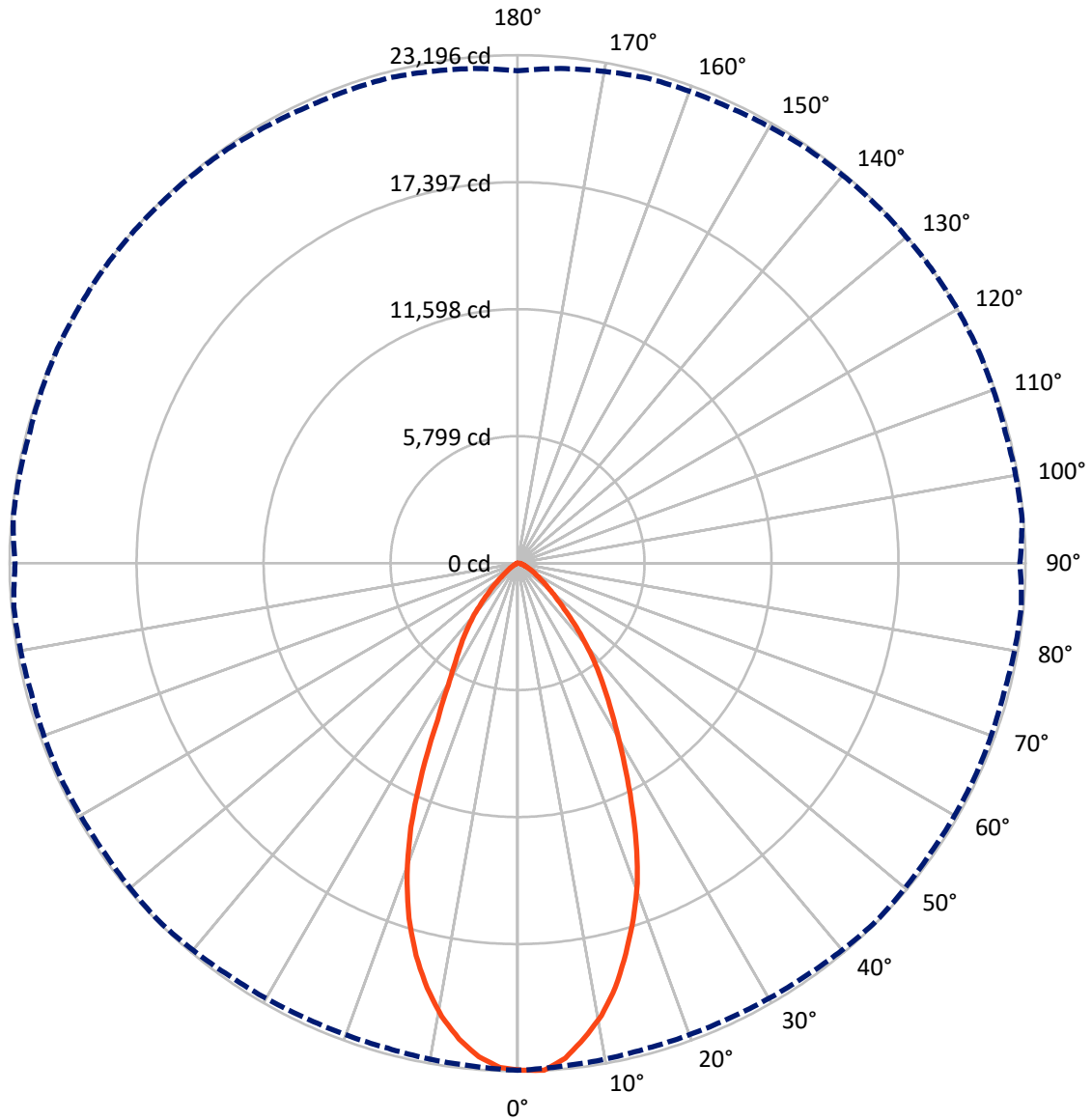
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.9 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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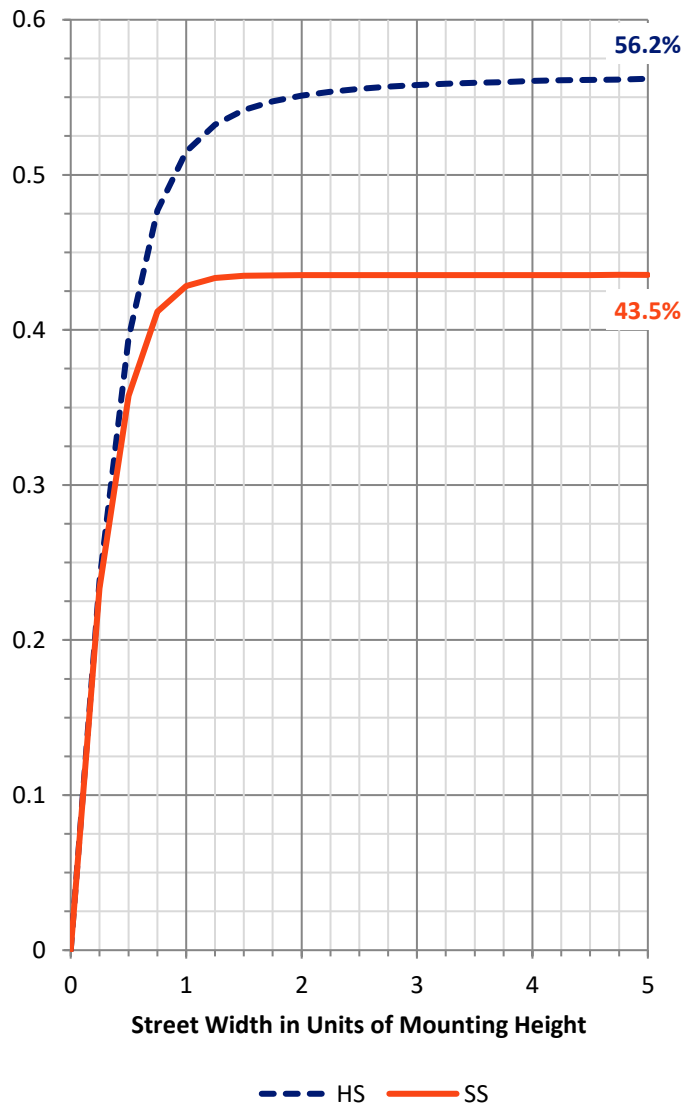
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10999.0	0.0	10999.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8384.5	0.0	8384.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	19383.5	0.0	19383.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2102.9	10.8
10°-20°	5012.8	25.9
20°-30°	5105.5	26.3
30°-40°	3807.1	19.6
40°-50°	1988.9	10.3
50°-60°	836.6	4.3
60°-70°	341.7	1.8
70°-80°	143.8	0.7
80°-90°	44.3	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°	19383.5	100.0
0°-180°	19383.5	100.0



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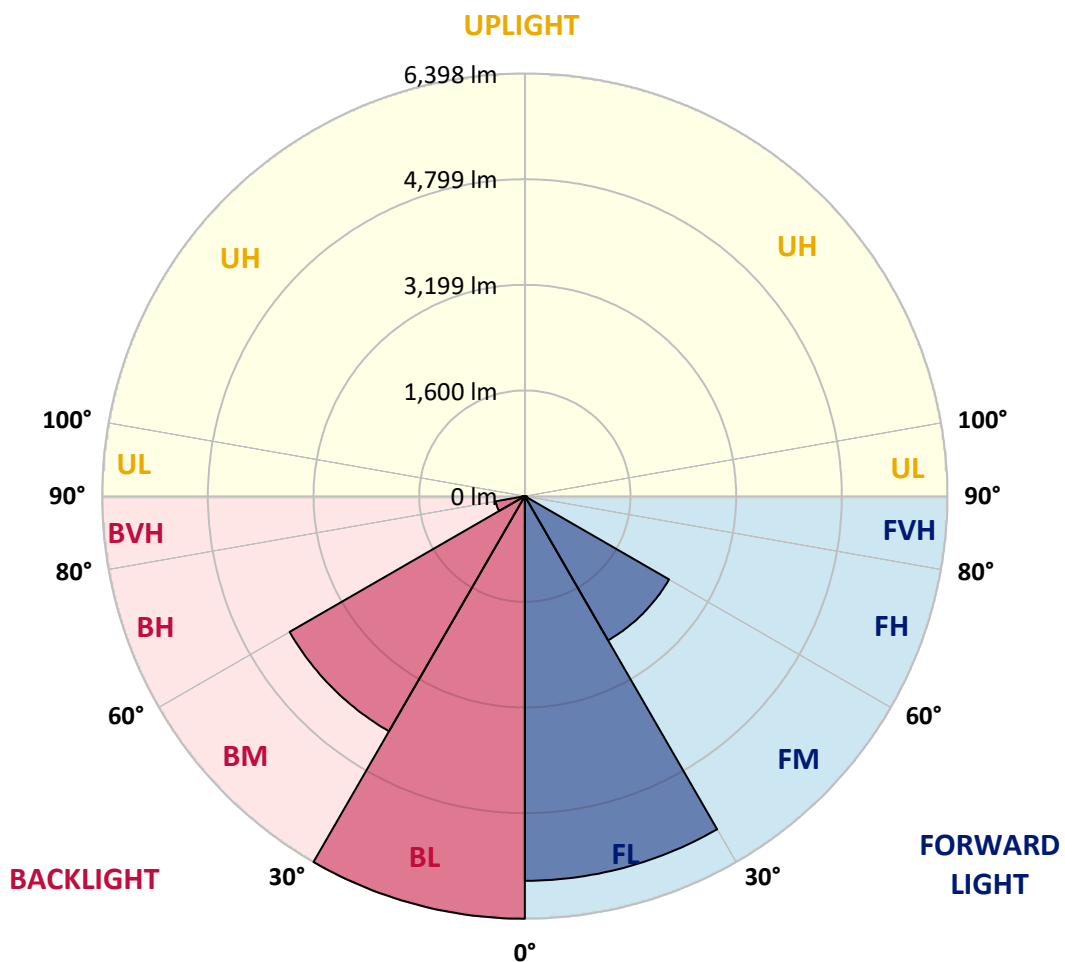
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5823.0	30.0			
FM (30°-60°)	2520.9	13.0			
FH (60°-80°)	36.5	0.2			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6398.1	33.0	B5		
BM (30°-60°)	4111.7	21.2	B3/5000		
BH (60°-80°)	449.0	2.3	B1/500		G1/500
BVH (80°-90°)	40.2	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6
2.5°	23161.1	23066.5	22932.0	22919.6	22989.3	23141.2	23044.1	23049.1	22989.3	23091.4
5°	22797.6	22707.9	22615.8	22493.8	22595.9	22660.6	22610.8	22556.0	22478.9	22578.5
7.5°	22110.4	22060.6	21923.6	21868.8	21931.1	22003.3	21896.2	21881.3	21774.2	21903.7
10°	21059.6	21039.7	20905.2	20872.9	20927.7	21037.2	20989.9	20979.9	20912.7	20900.3
12.5°	19969.0	19891.9	19725.0	19715.1	19797.2	19961.6	19834.6	19712.6	19749.9	19782.3
15°	17160.4	17078.3	17491.6	18141.4	18482.6	18470.1	18507.5	18360.6	18315.7	18330.7
17.5°	13642.2	13502.8	13652.1	14658.1	16279.0	17220.2	16961.2	16645.0	16475.7	16363.7
20°	11774.8	11782.2	11754.8	12013.8	13024.7	15171.0	15108.7	14498.7	14277.1	14185.0
22.5°	10639.4	10597.0	10537.3	10619.4	10890.8	12150.7	12994.8	12434.6	12357.4	12255.3
25°	9526.4	9526.4	9454.2	9536.3	9613.5	9631.0	10477.5	10706.6	10557.2	10557.2
27.5°	8562.8	8513.0	8480.6	8518.0	8415.9	7925.4	8032.4	9205.2	9103.1	9040.8
30°	7606.7	7591.7	7536.9	7586.7	7208.3	6655.5	6431.4	7768.5	7875.6	7853.2
32.5°	6279.5	6339.3	6583.3	6660.5	6013.1	5567.4	5353.3	6448.9	6877.1	6859.7
35°	4267.7	4317.5	4596.4	5517.6	4984.8	4666.1	4603.8	5129.2	5833.8	5901.1
37.5°	3398.7	3391.3	3470.9	3635.3	4006.3	3929.1	3911.6	4048.6	4758.2	4788.1
40°	2801.1	2791.2	2788.7	2654.2	2562.1	3266.8	3219.4	3137.3	3752.3	3812.0
42.5°	2258.3	2268.3	2275.8	1982.0	1847.5	2519.8	2492.4	2407.7	2943.1	3012.8
45°	1772.8	1770.3	1785.3	1476.5	1439.2	1611.0	1862.4	1795.2	2221.0	2295.7
47.5°	918.8	951.1	1152.8	1142.9	1160.3	1142.9	1409.3	1391.9	1670.7	1790.2
50°	617.5	627.5	644.9	647.4	913.8	841.6	956.1	1083.1	1170.3	1354.5
52.5°	478.1	485.5	440.7	413.3	560.2	622.5	627.5	749.5	816.7	1003.4
55°	266.4	298.8	321.2	323.7	308.7	460.6	458.1	555.2	607.5	732.0
57.5°	34.9	42.3	64.7	209.2	206.7	256.5	321.2	403.4	433.2	535.3
60°	2.5	5.0	7.5	32.4	136.9	149.4	219.1	251.5	301.3	376.0
62.5°	0.0	0.0	2.5	7.5	27.4	87.1	114.5	132.0	176.8	246.5
65°	0.0	0.0	2.5	5.0	10.0	32.4	44.8	72.2	104.6	151.9
67.5°	0.0	0.0	2.5	5.0	7.5	12.4	19.9	32.4	54.8	92.1
70°	0.0	0.0	2.5	5.0	7.5	10.0	14.9	19.9	29.9	49.8
72.5°	0.0	0.0	2.5	2.5	5.0	12.4	12.4	14.9	19.9	27.4
75°	0.0	0.0	2.5	5.0	7.5	12.4	12.4	12.4	14.9	17.4
77.5°	0.0	0.0	2.5	5.0	7.5	12.4	10.0	12.4	12.4	12.4
80°	0.0	0.0	2.5	5.0	7.5	12.4	14.9	12.4	10.0	10.0
82.5°	0.0	0.0	2.5	7.5	7.5	17.4	17.4	17.4	7.5	7.5
85°	0.0	0.0	5.0	7.5	12.4	19.9	19.9	14.9	7.5	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.0	14.9	12.4	5.0	2.5
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°
23158.6	0°	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6	23158.6
22942.0	2.5°	23126.2	23064.0	23181.0	23196.0	23146.2	23083.9	22939.5	22927.0	22675.6
22434.0	5°	22688.0	22585.9	22660.6	22710.4	22693.0	22625.8	22566.0	22511.2	22284.6
21609.9	7.5°	21871.3	21834.0	21868.8	21906.2	21978.4	21906.2	21881.3	21824.0	21599.9
20798.2	10°	20965.0	20895.3	21027.2	21009.8	20989.9	20970.0	20865.4	20875.4	20611.4
19692.7	12.5°	19852.0	19735.0	19862.0	19876.9	19862.0	19792.3	19675.2	19725.0	19483.5
18198.7	15°	18355.6	18343.1	18435.3	18495.0	18537.3	18462.6	18422.8	18447.7	18303.3
16276.5	17.5°	16518.0	16679.9	16981.2	17083.2	17085.7	17162.9	17140.5	17110.6	17003.6
14147.6	20°	14356.8	14668.0	15131.2	15606.7	15743.7	15678.9	15649.1	15703.8	15544.5
12148.2	22.5°	12362.4	12628.8	13166.6	13861.3	14262.2	14302.0	14294.5	14247.2	14185.0
10547.2	25°	10669.2	10905.8	11421.2	12056.1	12825.5	12940.0	12945.0	12930.1	12875.3
9095.6	27.5°	9240.0	9526.4	9810.2	10377.9	11197.1	11670.2	11610.4	11593.0	11573.1
7870.6	30°	7945.3	8306.3	8572.7	8926.3	9660.8	10300.7	10363.0	10333.1	10285.8
6857.2	32.5°	6919.4	7133.6	7472.2	7711.2	8239.1	8963.7	9202.7	9180.3	9138.0
5943.4	35°	6028.1	6112.7	6379.1	6645.6	6996.6	7698.8	8052.4	8002.6	7995.1
4842.9	37.5°	4964.9	5248.7	5395.6	5664.5	5911.0	6456.3	6944.3	6921.9	6924.4
3894.2	40°	4008.7	4173.1	4464.4	4691.0	4917.6	5315.9	5858.7	5873.7	5868.7
3015.3	42.5°	3077.5	3236.9	3543.1	3789.6	3991.3	4237.8	4755.7	4773.1	4795.6
2348.0	45°	2402.8	2504.8	2728.9	2985.4	3199.5	3348.9	3742.3	3854.4	3856.9
1820.1	47.5°	1864.9	1982.0	2141.3	2387.8	2597.0	2704.0	2990.4	3142.3	3134.8
1396.8	50°	1464.1	1571.1	1700.6	1894.8	2121.4	2206.1	2417.7	2567.1	2559.6
1053.2	52.5°	1120.5	1257.4	1371.9	1521.3	1742.9	1815.1	1967.0	2138.8	2113.9
771.9	55°	849.1	988.5	1095.6	1220.1	1421.7	1513.9	1618.4	1755.4	1760.4
597.6	57.5°	639.9	784.3	881.4	1008.4	1160.3	1262.4	1342.1	1489.0	1486.5
408.3	60°	458.1	582.6	699.7	831.6	948.7	1065.7	1120.5	1259.9	1264.9
288.8	62.5°	331.2	448.2	560.2	674.8	779.3	893.9	943.7	1053.2	1068.2
189.2	65°	231.6	313.7	443.2	530.3	647.4	732.0	796.8	891.4	908.8
112.0	67.5°	149.4	226.6	351.1	428.3	535.3	607.5	674.8	749.5	771.9
72.2	70°	89.6	171.8	261.4	343.6	440.7	505.5	570.2	634.9	647.4
34.9	72.5°	57.3	119.5	189.2	278.9	353.6	423.3	480.6	527.9	490.5
22.4	75°	32.4	82.2	149.4	219.1	286.3	353.6	400.9	425.8	341.1
14.9	77.5°	19.9	59.8	122.0	176.8	221.6	283.8	313.7	328.7	244.0
10.0	80°	12.4	44.8	102.1	144.4	144.4	209.2	244.0	256.5	176.8
7.5	82.5°	10.0	32.4	79.7	109.6	97.1	156.9	191.7	194.2	124.5
5.0	85°	7.5	24.9	49.8	72.2	67.2	109.6	112.0	124.5	82.2
5.0	87.5°	5.0	14.9	29.9	42.3	37.3	52.3	59.8	67.2	44.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23158.6
22478.9
22102.9
21552.6
20521.8
19413.8
18129.0
16844.2
15429.9
14065.5
12691.0
11456.1
10226.0
9025.9
7912.9
6844.7
5781.6
4720.9
3792.1
3107.4
2559.6
2116.4
1760.4
1481.5
1252.4
1063.2
903.8
769.4
637.4
455.7
323.7
229.1
164.3
114.5
74.7
39.8
0.0

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