

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: P636670

Luminaire Tested: **IFLD-L-SA7A-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636670
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18008.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

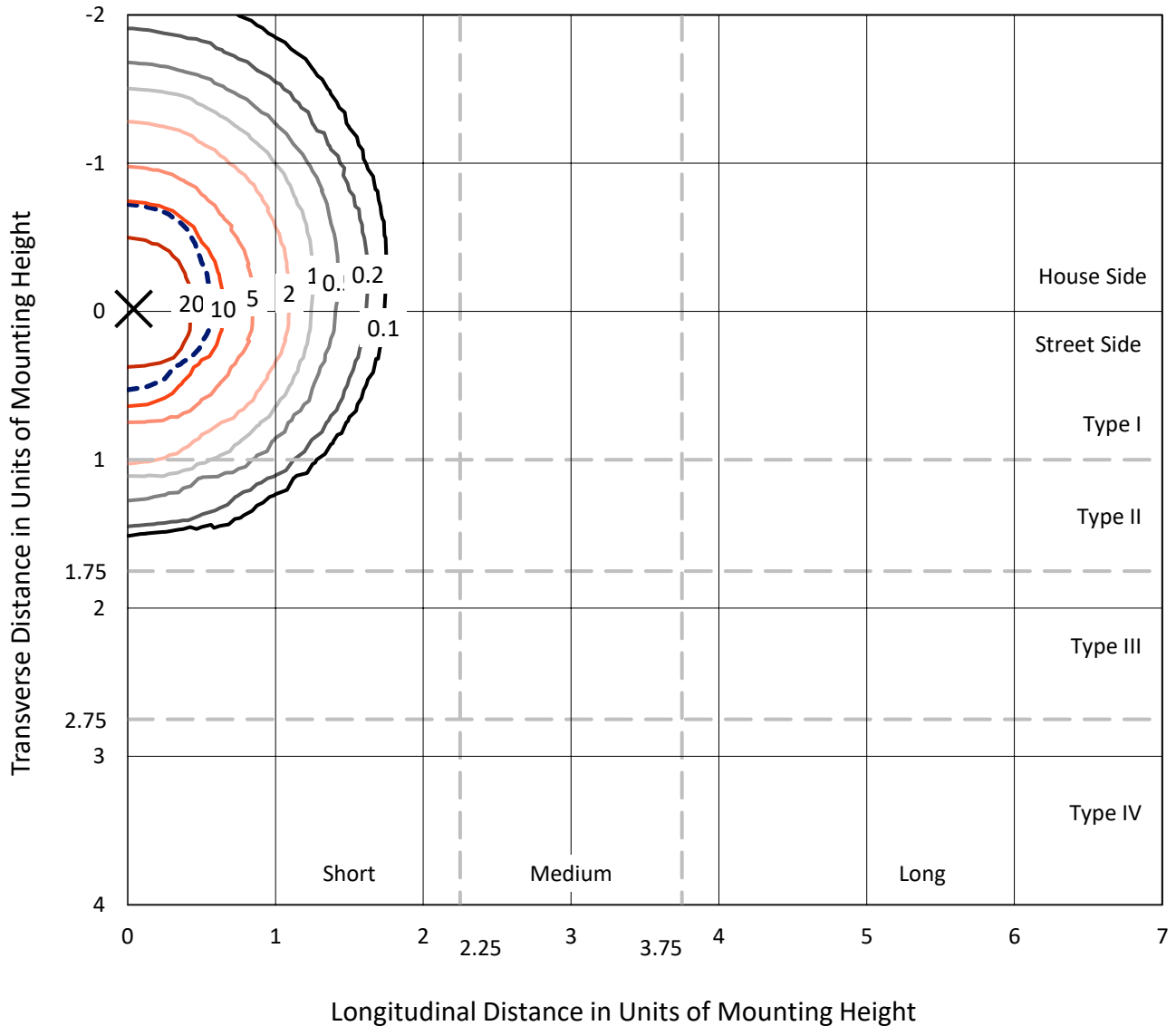
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

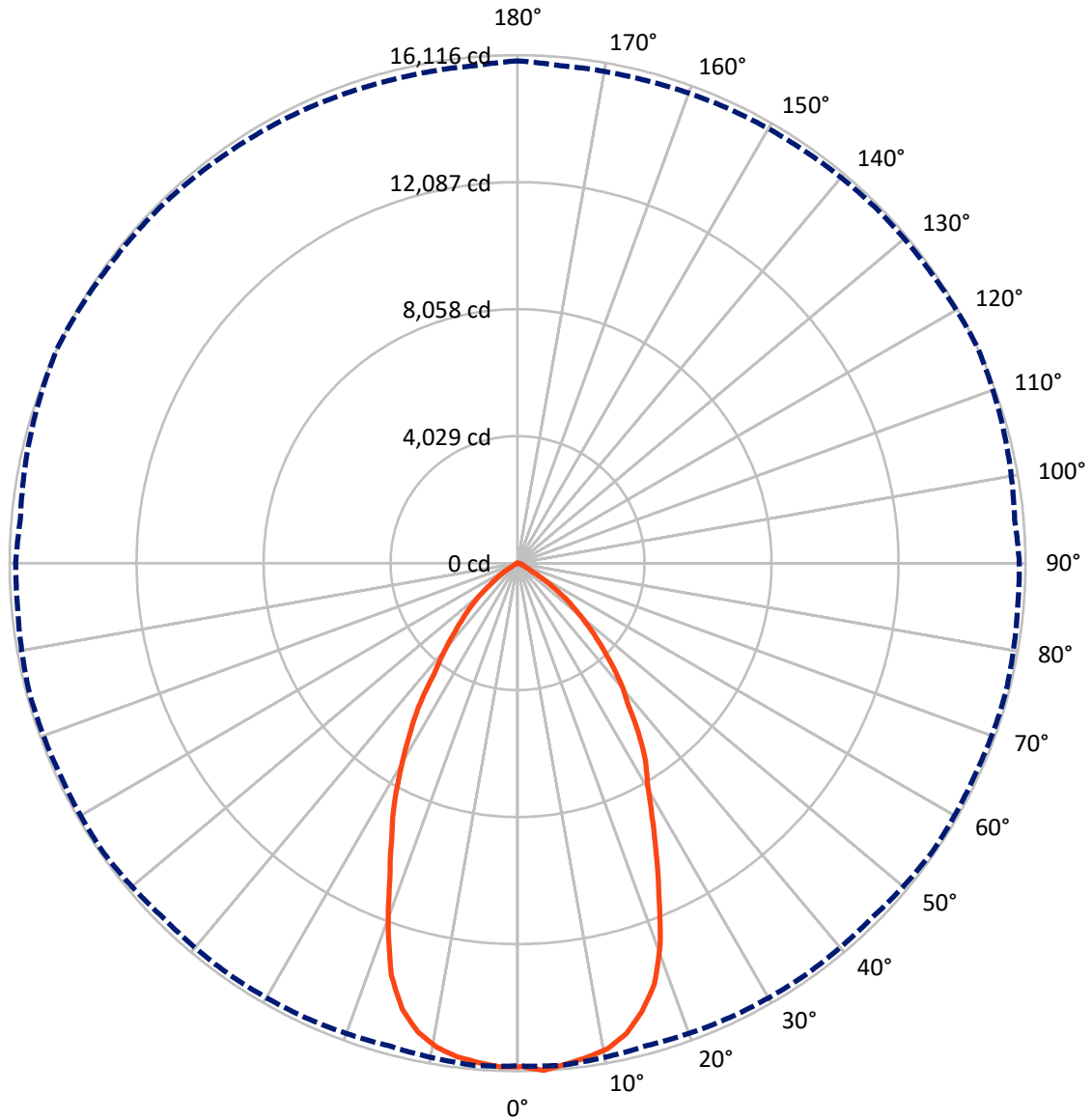
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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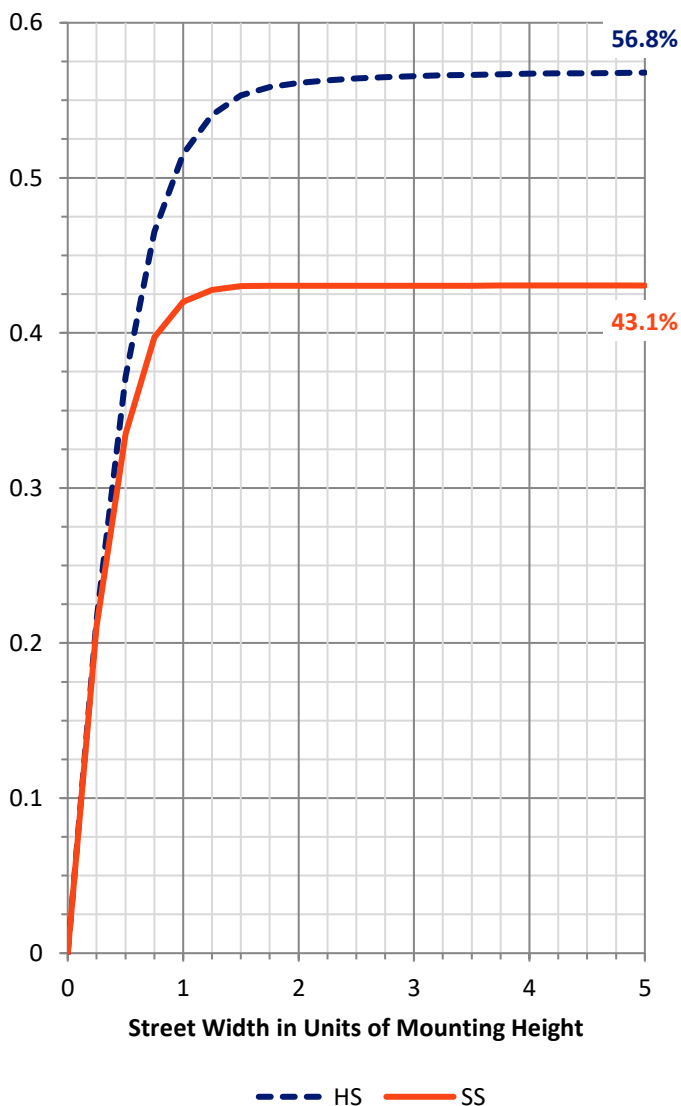
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10306.0	0.0	10306.0
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7702.5	0.0	7702.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	18008.5	0.0	18008.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1504.9	8.4
10°-20°	3990.3	22.2
20°-30°	4564.1	25.3
30°-40°	3911.3	21.7
40°-50°	2586.3	14.4
50°-60°	1128.5	6.3
60°-70°	221.7	1.2
70°-80°	80.0	0.4
80°-90°	21.3	0.1
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°	18008.5	100.0
0°-180°	18008.5	100.0



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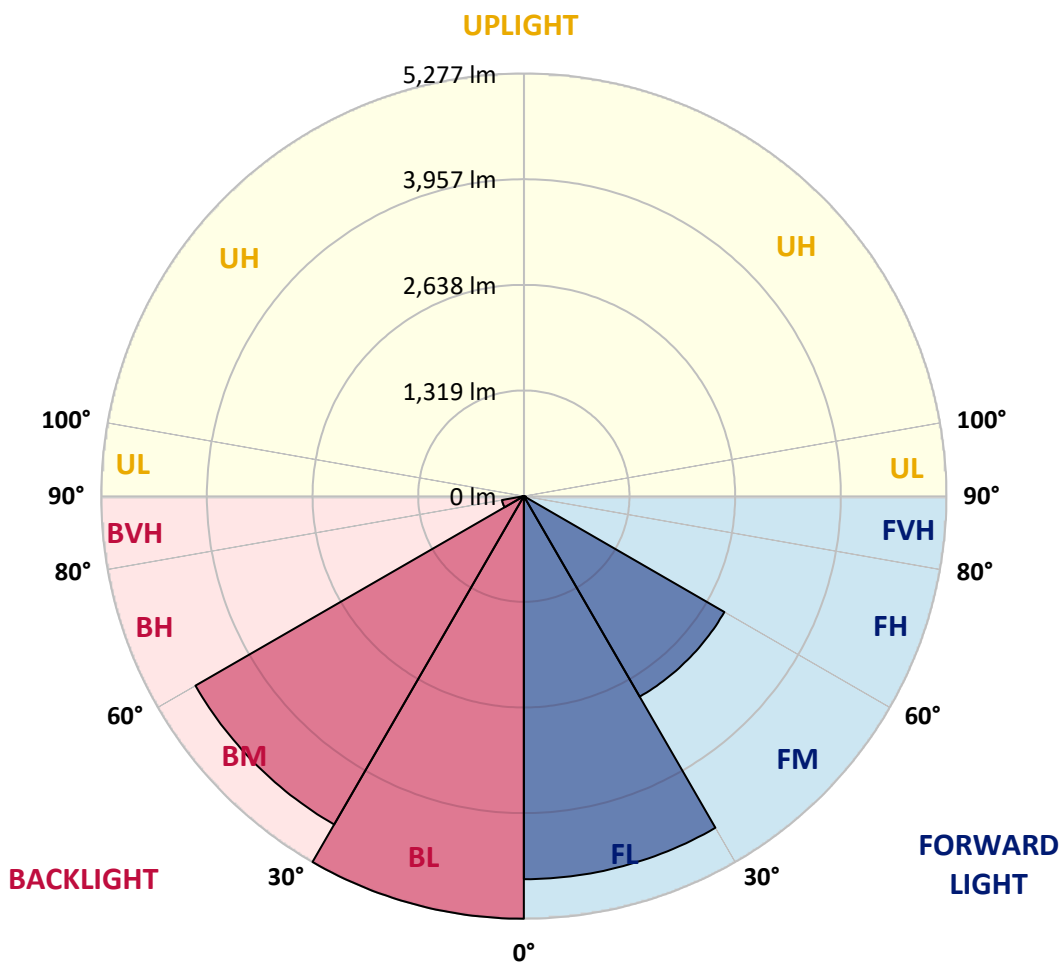
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4782.7	26.6			
FM (30°-60°)	2891.8	16.1			
FH (60°-80°)	24.5	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5276.7	29.3	B5		
BM (30°-60°)	4734.4	26.3	B3/5000		
BH (60°-80°)	277.3	1.5	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			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°	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1
2.5°	15955.1	15993.4	15847.9	15913.0	15939.8	15905.3	16031.7	15993.4	16024.0	15928.3
5°	15955.1	15993.4	15824.9	15855.6	15863.2	15798.2	15936.0	15890.0	15893.9	15794.3
7.5°	15855.6	15901.5	15748.4	15771.4	15775.2	15721.6	15840.3	15775.2	15752.2	15648.9
10°	15587.6	15614.4	15476.6	15534.0	15587.6	15537.8	15641.2	15568.5	15568.5	15476.6
12.5°	15162.7	15212.5	15059.3	15128.3	15174.2	15116.8	15235.4	15208.6	15212.5	15120.6
15°	14389.4	14217.2	14400.9	14538.7	14542.6	14531.1	14642.1	14615.3	14634.4	14496.6
17.5°	10630.4	10588.2	10802.6	12429.5	13639.2	13803.8	13822.9	13677.4	13612.4	13478.4
20°	9849.4	9880.1	9834.1	9841.8	10795.0	12774.0	12655.4	12295.5	12130.9	11996.9
22.5°	9279.1	9229.3	9198.7	9179.5	9206.3	10496.4	11350.0	10806.4	10718.4	10653.3
25°	8658.9	8636.0	8597.7	8590.0	8574.7	8356.5	9585.3	9635.1	9493.4	9413.0
27.5°	8080.9	8065.6	8023.5	8019.7	7843.6	7315.3	7449.3	8632.1	8593.9	8563.2
30°	7464.6	7434.0	7411.0	7411.0	6878.9	6335.3	6117.1	7525.8	7525.8	7499.0
32.5°	6794.7	6767.9	6775.6	6683.7	6048.2	5550.6	5206.1	6496.1	6898.1	6875.1
35°	4153.4	4145.7	4922.8	5944.9	5198.4	4746.7	4723.8	5558.3	6143.9	6205.2
37.5°	3697.8	3674.9	3686.4	3751.4	4452.0	4272.0	4264.4	4406.0	5229.0	5259.7
40°	3318.9	3303.6	3292.1	3058.6	2836.5	3812.7	3785.9	3694.0	4467.3	4520.9
42.5°	2959.0	2943.7	2943.7	2614.5	2254.7	3135.1	3146.6	3039.4	3766.8	3785.9
45°	2587.7	2576.2	2511.2	2086.3	1982.9	2082.4	2606.9	2484.4	2989.7	3188.7
47.5°	1221.1	1213.5	1757.1	1734.1	1726.4	1665.2	1990.6	2059.5	2373.4	2572.4
50°	980.0	972.3	926.4	815.4	1420.2	1263.2	1435.5	1584.8	1684.3	1868.1
52.5°	811.5	803.9	708.2	627.8	788.6	922.5	857.5	1060.4	1056.5	1255.6
55°	532.1	493.8	543.6	513.0	413.4	669.9	654.6	803.9	784.7	957.0
57.5°	11.5	11.5	26.8	290.9	260.3	283.3	375.1	459.4	516.8	566.5
60°	3.8	3.8	7.7	15.3	107.2	118.7	145.5	168.4	237.3	294.8
62.5°	0.0	0.0	3.8	7.7	15.3	61.2	68.9	80.4	111.0	153.1
65°	0.0	0.0	0.0	3.8	7.7	15.3	23.0	49.8	68.9	88.0
67.5°	0.0	0.0	0.0	3.8	3.8	7.7	15.3	23.0	30.6	61.2
70°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.3	23.0	30.6
72.5°	0.0	0.0	0.0	3.8	3.8	11.5	7.7	11.5	15.3	19.1
75°	0.0	0.0	0.0	3.8	3.8	3.8	7.7	11.5	11.5	15.3
77.5°	0.0	0.0	0.0	3.8	7.7	7.7	7.7	7.7	7.7	11.5
80°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.3	7.7	7.7
82.5°	0.0	0.0	0.0	7.7	3.8	15.3	23.0	19.1	7.7	3.8
85°	0.0	0.0	0.0	3.8	15.3	19.1	19.1	11.5	3.8	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	11.5	3.8	3.8
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°
15978.1	0°	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1	15978.1
15920.6	2.5°	15832.6	15981.9	16115.9	16031.7	16001.0	15939.8	15893.9	15844.1	15840.3
15782.8	5°	15694.8	15836.4	15966.6	15867.1	15874.7	15844.1	15813.5	15802.0	15809.6
15641.2	7.5°	15576.1	15694.8	15836.4	15752.2	15775.2	15756.0	15740.7	15717.8	15752.2
15457.5	10°	15396.2	15503.4	15668.0	15587.6	15576.1	15557.0	15541.7	15499.6	15518.7
15124.4	12.5°	15001.9	15135.9	15323.5	15231.6	15262.2	15208.6	15185.7	15158.9	15162.7
14546.4	15°	14466.0	14569.4	14760.8	14688.0	14711.0	14676.5	14676.5	14676.5	14703.3
13497.5	17.5°	13532.0	13742.5	14044.9	13953.1	13987.5	13995.2	13987.5	14014.3	14048.8
12004.6	20°	12012.3	12372.1	12923.3	13103.2	13176.0	13179.8	13126.2	13191.3	13260.2
10607.4	22.5°	10615.0	10994.0	11480.2	11974.0	12280.2	12264.9	12272.6	12314.7	12387.4
9363.3	25°	9405.4	9769.1	10209.3	10649.5	11319.4	11457.2	11461.0	11499.3	11556.7
8513.5	27.5°	8532.6	8674.2	9076.2	9520.2	10239.9	10680.1	10657.1	10691.6	10752.8
7449.3	30°	7479.9	8023.5	8115.4	8387.1	9007.3	9815.0	9818.8	9857.1	9918.3
6821.5	32.5°	6802.4	7162.2	7445.5	7453.1	7981.4	8812.1	8976.7	9014.9	9057.0
6170.7	35°	6166.9	6209.0	6591.8	6699.0	7005.2	7828.3	8119.2	8142.2	8211.1
5248.2	37.5°	5336.2	5585.1	5692.2	6075.0	6090.3	6756.4	7334.4	7311.5	7365.1
4517.0	40°	4574.5	4811.8	5083.6	5363.0	5401.3	5898.9	6538.2	6561.2	6584.2
3747.6	42.5°	3778.2	4080.6	4360.1	4547.7	4808.0	5095.1	5703.7	5810.9	5864.5
3211.7	45°	3269.1	3353.3	3686.4	3962.0	4226.1	4360.1	4930.5	5125.7	5160.1
2541.8	47.5°	2576.2	2859.5	3085.4	3318.9	3648.1	3766.8	4180.2	4452.0	4478.8
1887.2	50°	1990.6	2193.4	2503.5	2714.1	3096.9	3161.9	3445.2	3797.4	3831.8
1263.2	52.5°	1424.0	1699.6	2002.0	2204.9	2572.4	2656.6	2867.2	3204.0	3227.0
968.5	55°	1022.1	1202.0	1450.8	1741.7	2009.7	2197.3	2342.7	2664.3	2694.9
635.4	57.5°	696.7	865.1	968.5	1259.4	1420.2	1623.1	1741.7	1986.7	2009.7
302.4	60°	333.0	413.4	493.8	639.3	742.6	914.9	991.5	1091.0	1117.8
183.7	62.5°	214.4	252.6	321.6	382.8	482.3	589.5	620.1	704.4	735.0
114.8	65°	141.6	179.9	252.6	268.0	367.5	451.7	490.0	551.2	585.7
68.9	67.5°	80.4	126.3	187.6	222.0	290.9	371.3	413.4	467.0	497.6
45.9	70°	53.6	103.4	149.3	183.7	229.7	298.6	352.2	398.1	417.3
23.0	72.5°	30.6	65.1	103.4	145.5	183.7	248.8	298.6	336.9	222.0
15.3	75°	19.1	49.8	88.0	122.5	153.1	199.1	241.2	237.3	99.5
11.5	77.5°	15.3	38.3	76.6	103.4	126.3	137.8	172.3	195.2	76.6
7.7	80°	11.5	30.6	68.9	88.0	49.8	99.5	134.0	145.5	53.6
7.7	82.5°	7.7	19.1	57.4	61.2	34.5	72.7	107.2	95.7	38.3
3.8	85°	3.8	11.5	19.1	34.5	30.6	34.5	26.8	38.3	26.8
3.8	87.5°	3.8	7.7	15.3	15.3	15.3	11.5	15.3	15.3	15.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15978.1
15932.1
15905.3
15847.9
15610.6
15273.7
14714.8
14163.6
13306.1
12398.9
11656.3
10810.3
10025.5
9152.7
8283.8
7430.1
6656.9
5941.1
5244.4
4543.8
3881.6
3269.1
2721.7
2055.6
1148.4
742.6
585.7
493.8
413.4
179.9
99.5
76.6
57.4
38.3
26.8
15.3
0.0

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