

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: P638030

Luminaire Tested: **IFLD-M-SA4C-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638030
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19049.7 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

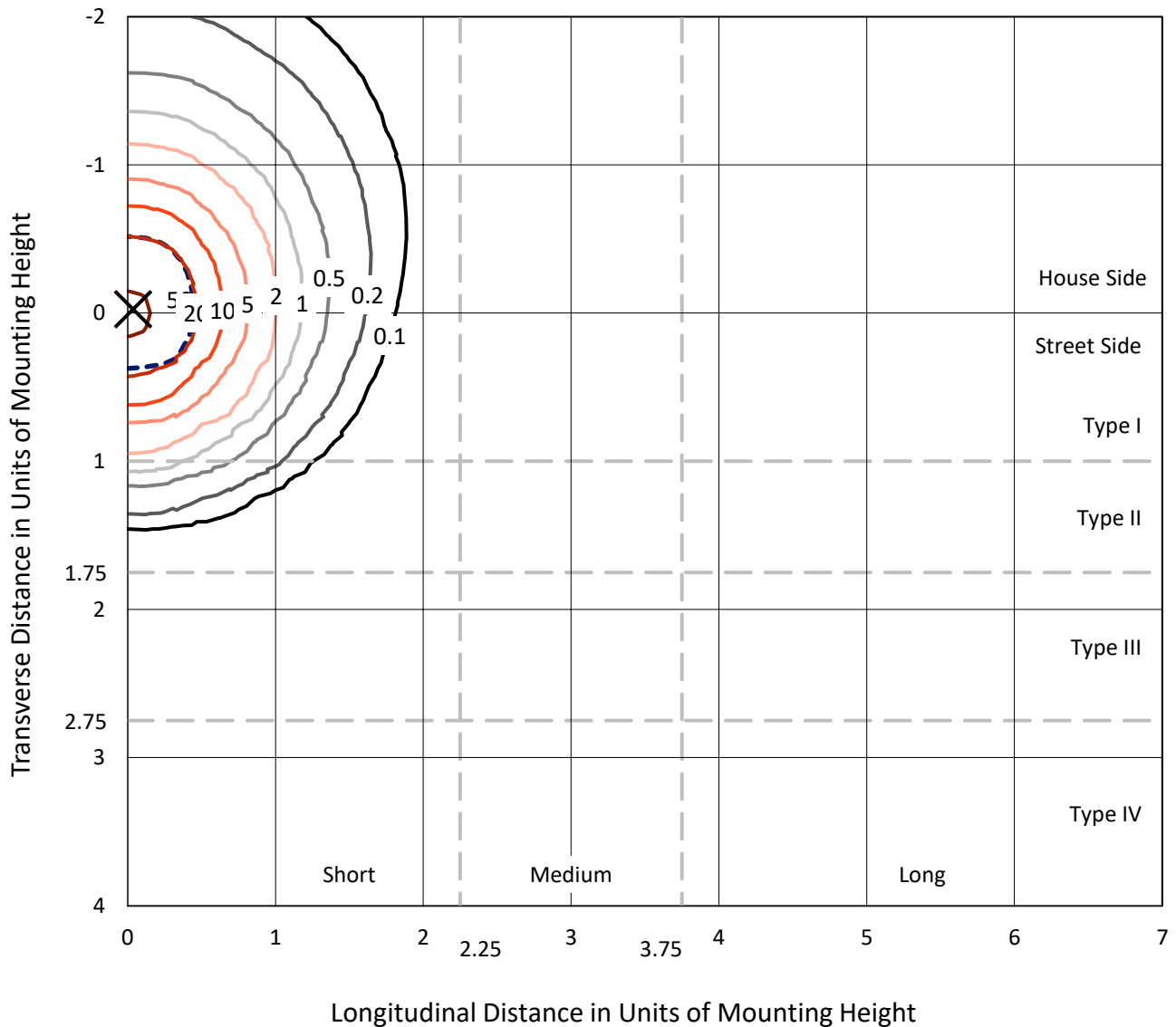
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

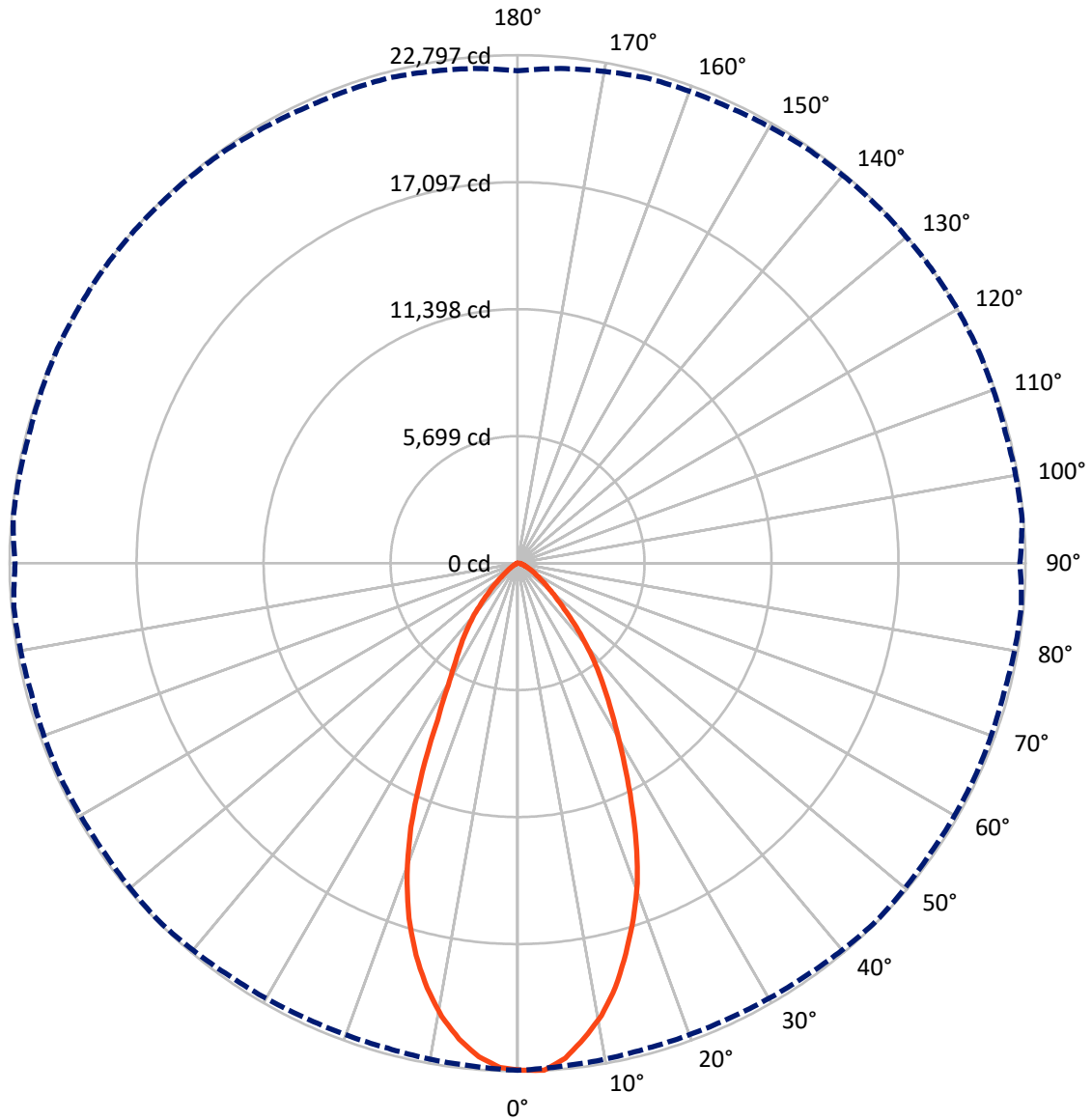
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.9 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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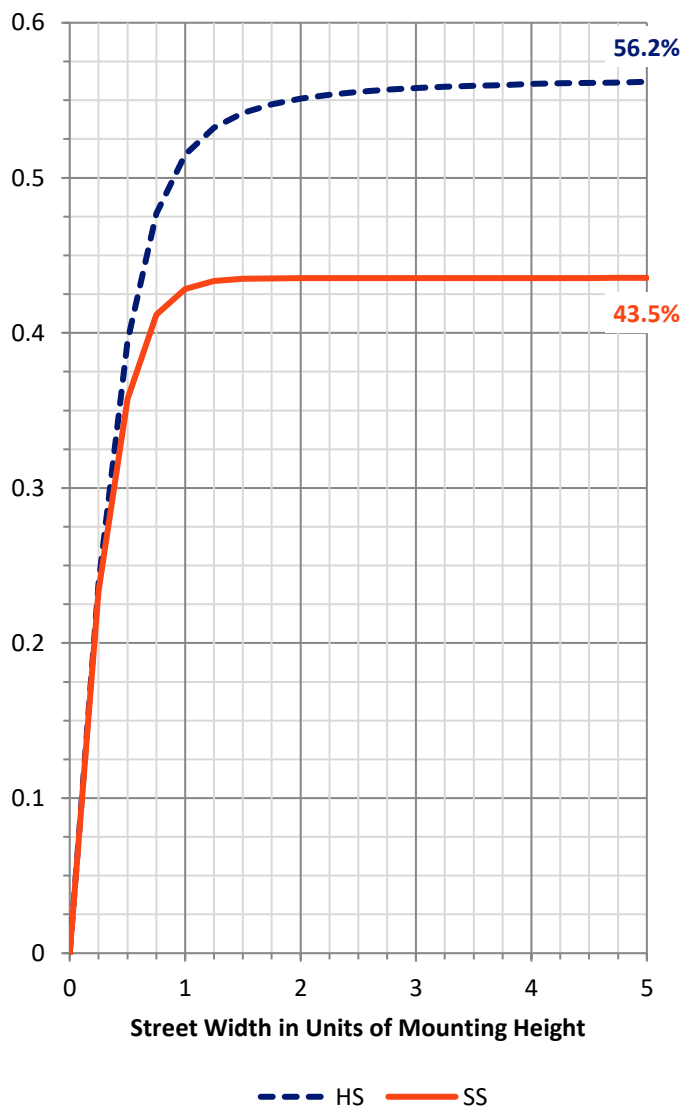
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10809.5	0.0	10809.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8240.1	0.0	8240.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	19049.7	0.0	19049.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2066.7	10.8
10°-20°	4926.5	25.9
20°-30°	5017.5	26.3
30°-40°	3741.6	19.6
40°-50°	1954.7	10.3
50°-60°	822.2	4.3
60°-70°	335.8	1.8
70°-80°	141.3	0.7
80°-90°	43.5	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°	19049.7	100.0
0°-180°	19049.7	100.0



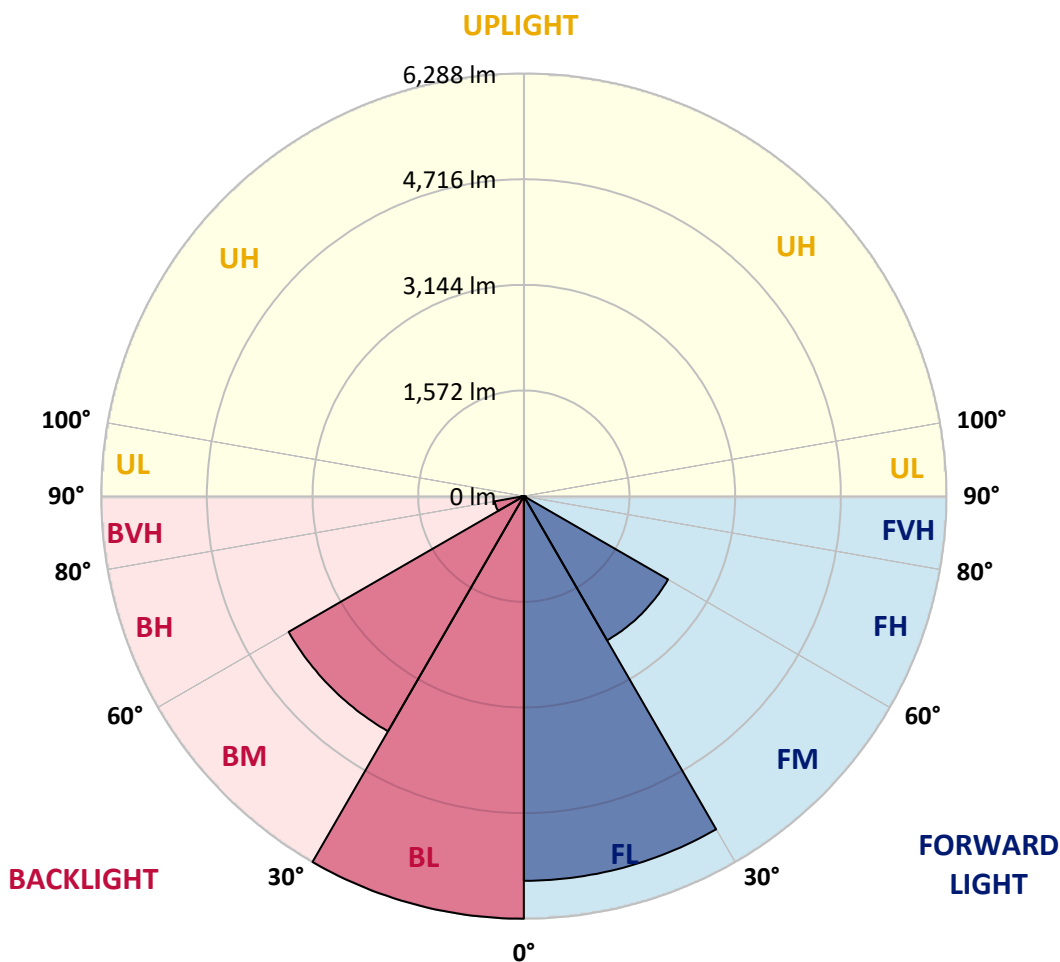
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5722.8	30.0			
FM (30°-60°)	2477.5	13.0			
FH (60°-80°)	35.8	0.2			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	6287.9	33.0	B5		
BM (30°-60°)	4040.9	21.2	B3/5000		
BH (60°-80°)	441.2	2.3	B1/500		G1/500
BVH (80°-90°)	39.5	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°	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8
2.5°	22762.2	22669.2	22537.1	22524.9	22593.4	22742.6	22647.2	22652.1	22593.4	22693.7
5°	22405.0	22316.9	22226.3	22106.4	22206.7	22270.4	22221.4	22167.6	22091.7	22189.6
7.5°	21729.6	21680.6	21546.0	21492.2	21553.4	21624.4	21519.1	21504.5	21399.2	21526.5
10°	20696.9	20677.4	20545.2	20513.4	20567.2	20674.9	20628.4	20618.6	20552.6	20540.3
12.5°	19625.1	19549.3	19385.3	19375.5	19456.3	19617.8	19493.0	19373.1	19409.8	19441.6
15°	16864.9	16784.1	17190.3	17829.0	18164.3	18152.0	18188.7	18044.4	18000.3	18015.0
17.5°	13407.2	13270.2	13417.0	14405.6	15998.6	16923.6	16669.1	16358.4	16192.0	16081.8
20°	11572.0	11579.3	11552.4	11806.9	12800.4	14909.7	14848.5	14249.0	14031.2	13940.7
22.5°	10456.1	10414.5	10355.8	10436.6	10703.3	11941.5	12771.0	12220.4	12144.6	12044.3
25°	9362.3	9362.3	9291.4	9372.1	9448.0	9465.1	10297.1	10522.2	10375.4	10375.4
27.5°	8415.3	8366.4	8334.6	8371.3	8270.9	7788.9	7894.1	9046.6	8946.3	8885.1
30°	7475.7	7461.0	7407.1	7456.1	7084.1	6540.9	6320.7	7634.7	7739.9	7717.9
32.5°	6171.4	6230.1	6469.9	6545.8	5909.6	5471.5	5261.1	6337.8	6758.7	6741.6
35°	4194.2	4243.1	4517.2	5422.6	4898.9	4585.7	4524.5	5040.9	5733.4	5799.4
37.5°	3340.2	3332.8	3411.2	3572.7	3937.3	3861.4	3844.3	3978.9	4676.3	4705.6
40°	2752.9	2743.1	2740.7	2608.5	2518.0	3210.5	3164.0	3083.3	3687.7	3746.4
42.5°	2219.5	2229.2	2236.6	1947.8	1815.7	2476.4	2449.5	2366.3	2892.4	2960.9
45°	1742.3	1739.8	1754.5	1451.1	1414.4	1583.2	1830.4	1764.3	2182.7	2256.2
47.5°	903.0	934.8	1133.0	1123.2	1140.3	1123.2	1385.0	1367.9	1642.0	1759.4
50°	606.9	616.7	633.8	636.2	898.1	827.1	939.7	1064.5	1150.1	1331.2
52.5°	469.8	477.2	433.1	406.2	550.6	611.8	616.7	736.6	802.6	986.2
55°	261.8	293.6	315.7	318.1	303.4	452.7	450.3	545.7	597.1	719.4
57.5°	34.3	41.6	63.6	205.6	203.1	252.0	315.7	396.4	425.8	526.1
60°	2.4	4.9	7.3	31.8	134.6	146.8	215.3	247.1	296.1	369.5
62.5°	0.0	0.0	2.4	7.3	26.9	85.6	112.6	129.7	173.7	242.3
65°	0.0	0.0	2.4	4.9	9.8	31.8	44.0	71.0	102.8	149.3
67.5°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	31.8	53.8	90.5
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.6	29.4	48.9
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	12.2	14.7	19.6	26.9
75°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	12.2	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	7.3	12.2	9.8	12.2	12.2	12.2
80°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	12.2	9.8	9.8
82.5°	0.0	0.0	2.4	7.3	7.3	17.1	17.1	17.1	7.3	7.3
85°	0.0	0.0	4.9	7.3	12.2	19.6	19.6	14.7	7.3	4.9
87.5°	0.0	0.0	2.4	4.9	4.9	9.8	14.7	12.2	4.9	2.4
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°
22759.8	0°	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8	22759.8
22546.9	2.5°	22728.0	22666.8	22781.8	22796.5	22747.5	22686.4	22544.4	22532.2	22285.1
22047.7	5°	22297.3	22197.0	22270.4	22319.3	22302.2	22236.1	22177.4	22123.5	21900.9
21237.7	7.5°	21494.7	21458.0	21492.2	21528.9	21599.9	21528.9	21504.5	21448.2	21227.9
20440.0	10°	20603.9	20535.4	20665.1	20648.0	20628.4	20608.8	20506.1	20515.9	20256.5
19353.5	12.5°	19510.1	19395.1	19519.9	19534.6	19519.9	19451.4	19336.4	19385.3	19148.0
17885.3	15°	18039.5	18027.2	18117.8	18176.5	18218.1	18144.7	18105.5	18130.0	17988.1
15996.2	17.5°	16233.6	16392.6	16688.7	16789.0	16791.5	16867.3	16845.3	16816.0	16710.7
13904.0	20°	14109.5	14415.4	14870.6	15337.9	15472.5	15408.9	15379.5	15433.4	15276.8
11939.0	22.5°	12149.5	12411.3	12939.9	13622.6	14016.6	14055.7	14048.4	14001.9	13940.7
10365.6	25°	10485.5	10718.0	11224.5	11848.5	12604.6	12717.2	12722.1	12707.4	12653.6
8939.0	27.5°	9080.9	9362.3	9641.3	10199.2	11004.3	11469.2	11410.5	11393.3	11373.8
7735.0	30°	7808.5	8163.3	8425.1	8772.6	9494.5	10123.3	10184.5	10155.2	10108.7
6739.1	32.5°	6800.3	7010.7	7343.5	7578.4	8097.2	8809.3	9044.2	9022.2	8980.6
5841.0	35°	5924.2	6007.4	6269.3	6531.1	6876.1	7566.2	7913.7	7864.7	7857.4
4759.5	37.5°	4879.4	5158.3	5302.7	5567.0	5809.2	6345.1	6824.8	6802.7	6805.2
3827.1	40°	3939.7	4101.2	4387.5	4610.2	4832.9	5224.4	5757.8	5772.5	5767.6
2963.3	42.5°	3024.5	3181.1	3482.1	3724.4	3922.6	4164.8	4673.8	4690.9	4713.0
2307.5	45°	2361.4	2461.7	2681.9	2934.0	3144.4	3291.2	3677.9	3788.0	3790.4
1788.8	47.5°	1832.8	1947.8	2104.4	2346.7	2552.2	2657.5	2938.9	3088.1	3080.8
1372.8	50°	1438.9	1544.1	1671.3	1862.2	2084.9	2168.1	2376.1	2522.9	2515.5
1035.1	52.5°	1101.2	1235.7	1348.3	1495.1	1712.9	1783.9	1933.1	2102.0	2077.5
758.6	55°	834.4	971.5	1076.7	1199.0	1397.3	1487.8	1590.6	1725.2	1730.0
587.3	57.5°	628.9	770.8	866.2	991.0	1140.3	1240.6	1318.9	1463.3	1460.9
401.3	60°	450.3	572.6	687.6	817.3	932.3	1047.3	1101.2	1238.2	1243.1
283.9	62.5°	325.5	440.5	550.6	663.1	765.9	878.5	927.4	1035.1	1049.8
186.0	65°	227.6	308.3	435.6	521.2	636.2	719.4	783.0	876.0	893.2
110.1	67.5°	146.8	222.7	345.0	420.9	526.1	597.1	663.1	736.6	758.6
71.0	70°	88.1	168.8	256.9	337.7	433.1	496.7	560.4	624.0	636.2
34.3	72.5°	56.3	117.5	186.0	274.1	347.5	416.0	472.3	518.8	482.1
22.0	75°	31.8	80.8	146.8	215.3	281.4	347.5	394.0	418.4	335.2
14.7	77.5°	19.6	58.7	119.9	173.7	217.8	279.0	308.3	323.0	239.8
9.8	80°	12.2	44.0	100.3	141.9	141.9	205.6	239.8	252.0	173.7
7.3	82.5°	9.8	31.8	78.3	107.7	95.4	154.2	188.4	190.9	122.4
4.9	85°	7.3	24.5	48.9	71.0	66.1	107.7	110.1	122.4	80.8
4.9	87.5°	4.9	14.7	29.4	41.6	36.7	51.4	58.7	66.1	44.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22759.8
22091.7
21722.2
21181.4
20168.4
19079.4
17816.8
16554.1
15164.2
13823.2
12472.5
11258.8
10049.9
8870.5
7776.6
6726.9
5682.0
4639.6
3726.8
3053.9
2515.5
2080.0
1730.0
1456.0
1230.9
1044.9
888.3
756.1
626.4
447.8
318.1
225.1
161.5
112.6
73.4
39.2
0.0

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