

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: P638117

Luminaire Tested: **IFLD-M-SA4C-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19914.1 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

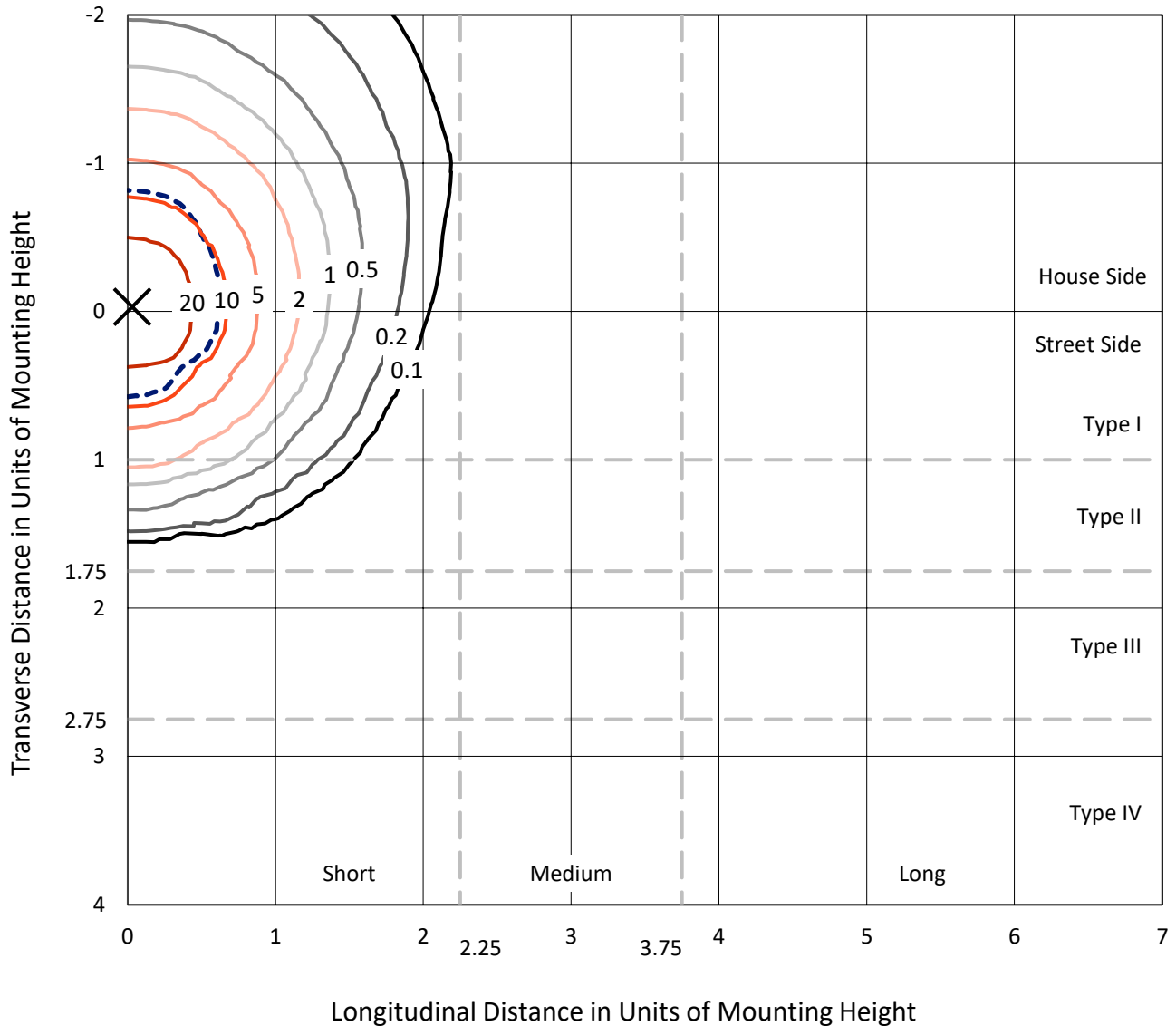
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

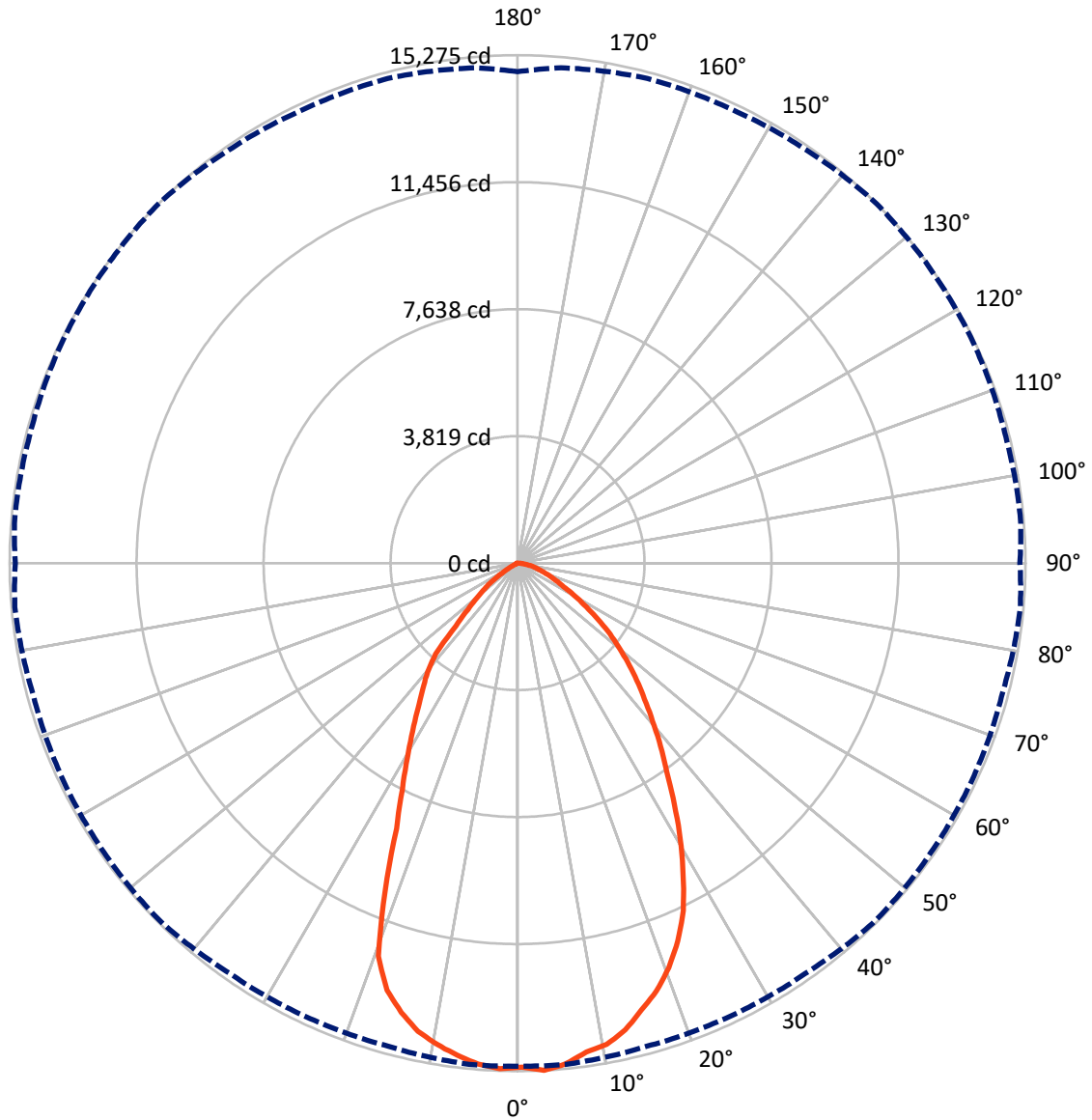
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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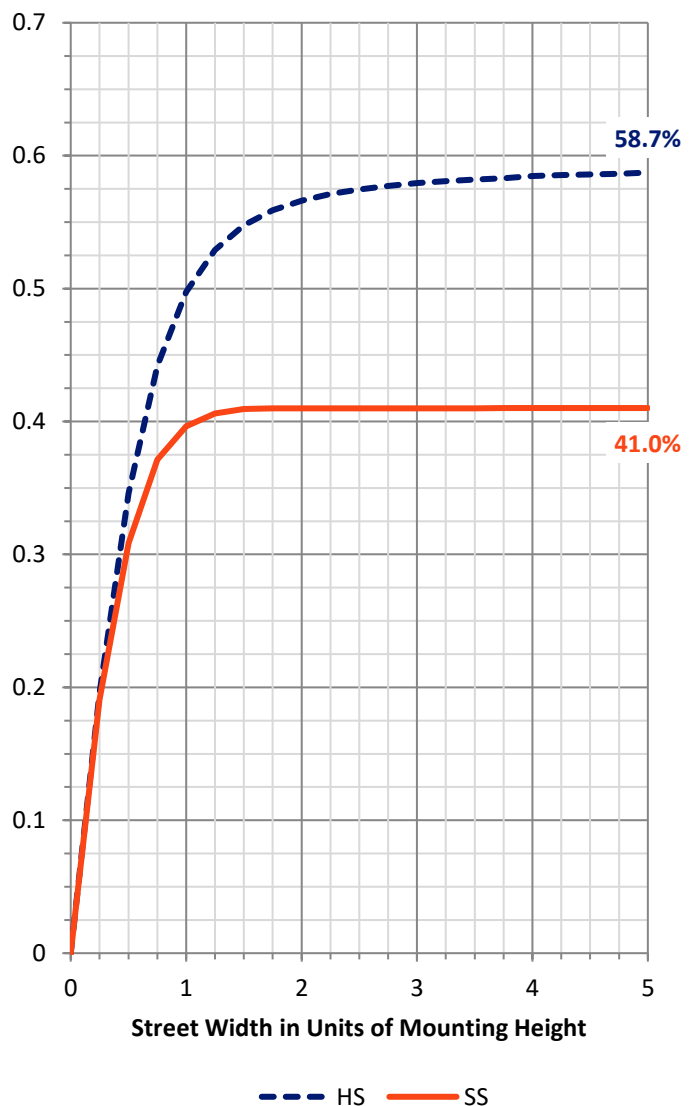
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11794.1	0.0	11794.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8119.9	0.0	8119.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	19914.1	0.0	19914.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1421.3	7.1
10°-20°	3811.2	19.1
20°-30°	4648.0	23.3
30°-40°	4243.5	21.3
40°-50°	3066.7	15.4
50°-60°	1674.5	8.4
60°-70°	692.3	3.5
70°-80°	280.4	1.4
80°-90°	76.3	0.4
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°	19914.1	100.0
0°-180°	19914.1	100.0

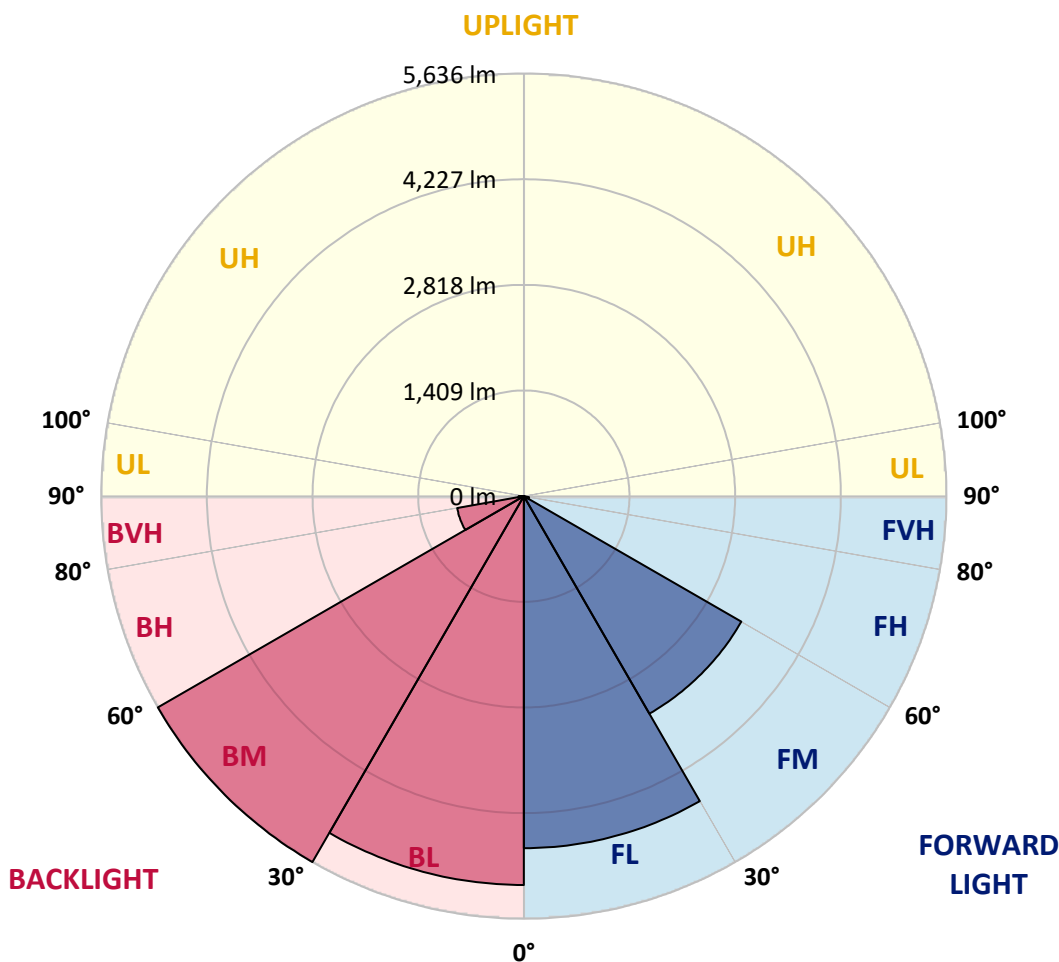


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4694.5	23.6			
FM (30°-60°)	3349.2	16.8			
FH (60°-80°)	70.2	0.4			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	5185.9	26.0	B5		
BM (30°-60°)	5635.5	28.3	B4/8500		
BH (60°-80°)	902.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	70.2	0.4			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°	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6
2.5°	15126.5	15146.2	15039.6	15050.8	15070.4	15213.5	15177.0	15143.3	15095.7	15177.0
5°	15106.9	15118.1	15005.9	14966.7	14983.5	15112.5	14994.7	14994.7	14983.5	14969.5
7.5°	14955.5	14961.1	14874.1	14804.0	14848.9	14907.8	14820.9	14862.9	14801.2	14848.9
10°	14728.3	14691.9	14588.1	14568.5	14618.9	14675.0	14616.1	14655.4	14599.3	14635.8
12.5°	14394.6	14338.5	14254.4	14229.1	14316.1	14391.8	14344.1	14321.7	14248.8	14338.5
15°	13107.4	13065.3	13256.0	13589.8	13889.8	13954.3	13903.8	13926.3	13774.8	13800.1
17.5°	10788.2	10709.7	10914.4	11705.2	12832.6	13427.1	13382.2	13236.4	13012.1	13062.5
20°	9803.9	9781.5	9759.0	9946.9	10735.0	12538.1	12599.8	12229.7	11910.0	11839.9
22.5°	9248.7	9240.2	9217.8	9259.9	9467.4	10625.6	11332.3	10990.1	10777.0	10757.4
25°	8741.1	8727.1	8659.8	8713.0	8713.0	8780.3	9686.1	9893.7	9705.8	9683.3
27.5°	8225.1	8199.8	8188.6	8213.9	8084.9	7630.6	7860.5	8872.9	8774.7	8780.3
30°	7667.0	7658.6	7627.8	7681.0	7282.8	6719.2	6573.3	7947.5	7967.1	7961.5
32.5°	6836.9	6873.4	7013.6	7072.5	6416.3	5950.8	5706.8	6876.2	7277.2	7268.8
35°	4966.5	4966.5	5423.6	6273.3	5622.7	5272.1	5140.3	5830.2	6595.8	6623.8
37.5°	4083.1	4097.1	4186.9	4573.9	4851.5	4728.1	4688.8	4907.6	5720.8	5765.7
40°	3673.7	3673.7	3673.7	3513.8	3505.4	4259.8	4237.3	4167.2	4941.2	5039.4
42.5°	3300.7	3309.1	3314.7	2910.9	2686.5	3682.1	3631.6	3525.0	4242.9	4357.9
45°	2916.5	2930.5	2947.3	2434.2	2336.0	2650.1	3073.5	2955.8	3553.1	3701.7
47.5°	1780.7	1803.2	2184.6	2064.0	2075.2	2044.4	2507.1	2487.4	2913.7	3124.0
50°	1203.1	1211.5	1247.9	1309.6	1780.7	1606.9	1775.1	2058.4	2212.6	2532.3
52.5°	1009.6	1023.6	933.8	849.7	1169.4	1256.3	1239.5	1528.4	1590.1	1985.5
55°	709.5	754.4	712.3	703.9	664.6	975.9	939.4	1175.0	1214.3	1508.7
57.5°	72.9	84.1	145.8	524.4	434.7	552.5	670.2	860.9	900.2	1113.3
60°	5.6	5.6	14.0	72.9	316.9	330.9	462.7	530.0	605.7	776.8
62.5°	0.0	2.8	5.6	11.2	50.5	176.7	232.8	277.6	364.6	502.0
65°	0.0	0.0	2.8	8.4	11.2	67.3	89.7	145.8	199.1	311.3
67.5°	0.0	0.0	2.8	5.6	8.4	16.8	30.8	53.3	106.6	176.7
70°	0.0	0.0	2.8	5.6	8.4	14.0	22.4	33.7	47.7	95.3
72.5°	0.0	0.0	2.8	2.8	5.6	14.0	16.8	22.4	33.7	47.7
75°	0.0	0.0	2.8	2.8	8.4	16.8	14.0	16.8	22.4	30.8
77.5°	0.0	0.0	2.8	5.6	8.4	16.8	14.0	16.8	16.8	19.6
80°	0.0	0.0	2.8	5.6	11.2	19.6	16.8	16.8	14.0	14.0
82.5°	0.0	0.0	2.8	8.4	11.2	25.2	25.2	22.4	11.2	8.4
85°	0.0	0.0	5.6	11.2	16.8	28.0	28.0	22.4	8.4	5.6
87.5°	0.0	0.0	5.6	8.4	14.0	19.6	28.0	22.4	8.4	2.8
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°
15154.6	0°	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6	15154.6
15106.9	2.5°	15182.6	15165.8	15221.9	15244.3	15275.2	15157.4	15084.5	15087.3	14952.7
14935.8	5°	15025.6	15028.4	15101.3	15095.7	15126.5	15062.0	15034.0	14986.3	14868.5
14719.9	7.5°	14826.5	14801.2	14871.3	14924.6	14846.1	14891.0	14826.5	14848.9	14778.8
14529.2	10°	14672.2	14613.3	14677.8	14714.3	14717.1	14672.2	14610.5	14551.6	14526.4
14231.9	12.5°	14330.1	14254.4	14363.7	14414.2	14405.8	14318.9	14248.8	14262.8	14181.5
13710.3	15°	13859.0	13861.8	13940.3	13988.0	13943.1	13923.5	13929.1	13895.4	13825.3
12989.6	17.5°	13138.3	13180.3	13387.8	13502.8	13528.1	13488.8	13469.2	13429.9	13359.8
11839.9	20°	11938.0	12190.4	12560.6	12916.7	12986.8	12975.6	12905.5	12888.7	12849.4
10701.3	22.5°	10883.6	11071.5	11500.5	12055.8	12341.8	12369.9	12285.7	12260.5	12218.4
9683.3	25°	9792.7	9994.6	10381.6	10984.5	11576.2	11696.8	11682.8	11607.1	11562.2
8780.3	27.5°	8872.9	9074.8	9425.3	9969.4	10603.1	10990.1	11026.6	10906.0	10903.2
7975.5	30°	8042.8	8320.4	8586.8	9029.9	9644.1	10224.6	10286.3	10202.1	10210.5
7238.0	32.5°	7392.2	7622.2	7849.3	8146.6	8656.9	9332.8	9574.0	9495.4	9464.6
6623.8	35°	6727.6	6884.6	7117.4	7389.4	7737.1	8407.4	8825.2	8766.3	8735.5
5793.7	37.5°	5970.4	6239.6	6407.9	6713.6	6985.6	7518.4	8107.3	8098.9	8034.4
5087.0	40°	5193.6	5476.8	5732.0	6040.5	6250.8	6674.3	7327.7	7324.9	7333.3
4355.1	42.5°	4489.7	4750.5	5059.0	5395.5	5597.4	5905.9	6607.0	6646.2	6693.9
3752.2	45°	3853.1	4088.7	4374.7	4784.2	5028.2	5204.8	5827.4	6006.9	6004.1
3213.8	47.5°	3281.1	3502.6	3743.8	4142.0	4453.3	4613.1	5129.1	5384.3	5367.5
2636.1	50°	2753.8	2950.1	3202.5	3491.4	3909.2	4049.4	4433.6	4770.2	4744.9
2100.4	52.5°	2215.4	2487.4	2700.6	2964.2	3404.4	3541.9	3839.1	4167.2	4147.6
1576.0	55°	1727.5	1991.1	2249.1	2476.2	2846.4	3051.1	3264.2	3600.8	3595.1
1233.9	57.5°	1306.8	1595.7	1839.6	2055.6	2350.0	2602.4	2773.5	3079.1	3118.4
844.1	60°	967.5	1189.0	1452.6	1693.8	1926.6	2187.4	2302.3	2602.4	2619.2
577.7	62.5°	659.0	903.0	1161.0	1379.7	1553.6	1822.8	1926.6	2173.4	2204.2
370.2	65°	457.1	614.1	908.6	1065.6	1278.8	1508.7	1612.5	1808.8	1870.5
213.1	67.5°	302.9	437.5	709.5	852.5	1062.8	1219.9	1351.7	1511.5	1578.8
134.6	70°	165.5	322.5	507.6	673.0	855.3	1006.8	1135.8	1264.8	1323.6
61.7	72.5°	112.2	215.9	353.3	532.8	689.9	838.5	953.5	1048.8	1051.6
36.5	75°	56.1	145.8	269.2	412.2	538.4	684.3	788.0	844.1	776.8
22.4	77.5°	33.7	106.6	218.7	330.9	437.5	552.5	611.3	642.2	532.8
16.8	80°	19.6	75.7	171.1	263.6	302.9	406.6	462.7	471.1	356.1
11.2	82.5°	14.0	56.1	134.6	193.5	185.1	286.0	347.7	336.5	227.2
8.4	85°	8.4	39.3	84.1	120.6	112.2	187.9	201.9	207.5	131.8
5.6	87.5°	5.6	22.4	44.9	64.5	53.3	81.3	81.3	98.2	64.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15154.6
14778.8
14840.5
14661.0
14414.2
14111.4
13755.2
13329.0
12759.7
12207.2
11514.6
10897.6
10168.5
9467.4
8693.4
8087.7
7333.3
6668.7
6009.7
5373.1
4767.4
4189.7
3609.2
3101.6
2644.5
2209.8
1856.5
1570.4
1301.2
1026.4
726.3
513.2
333.7
210.3
120.6
56.1
0.0

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