

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: P638290

Luminaire Tested: **IFLD-M-SA4B-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13959.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

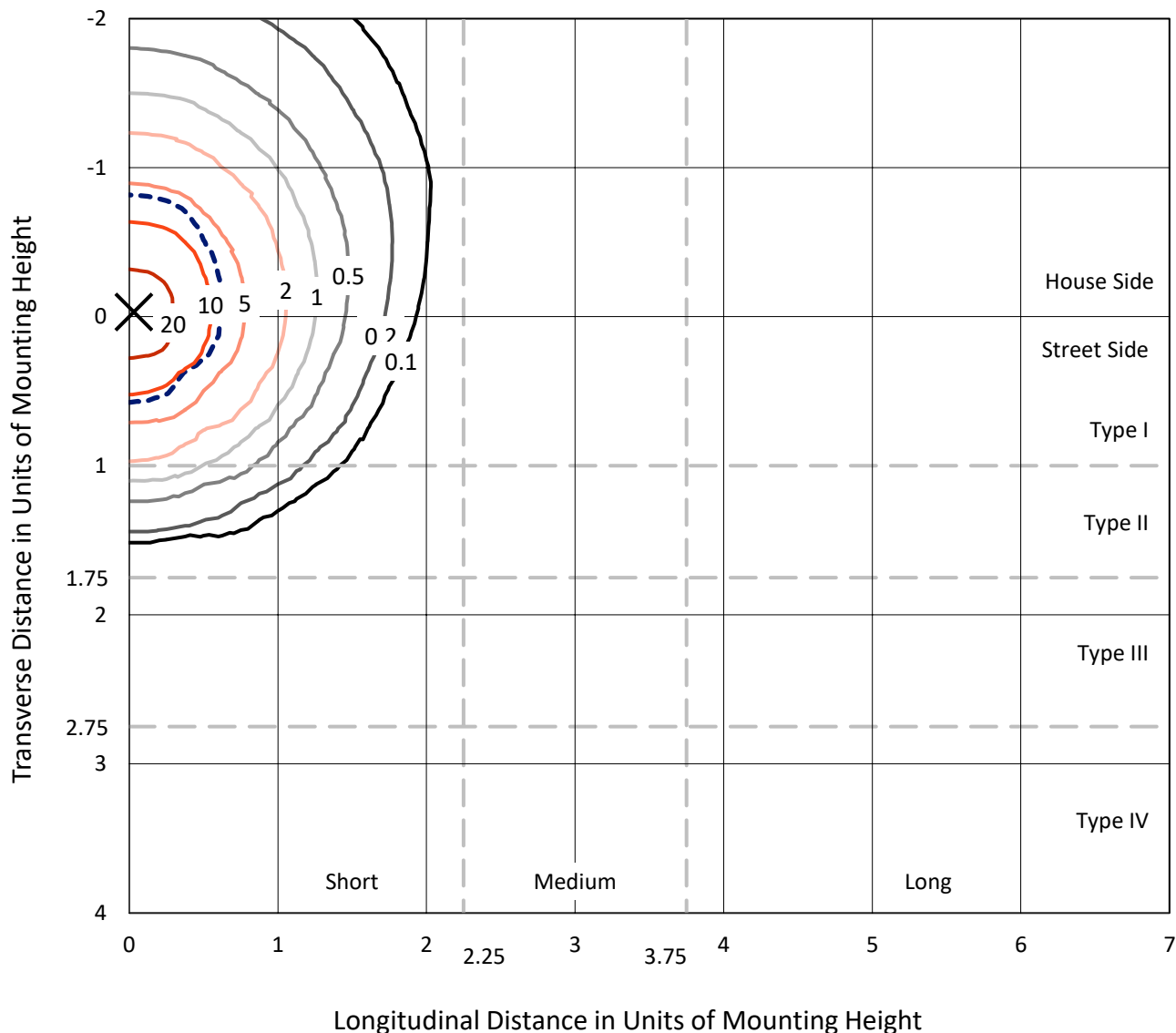
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

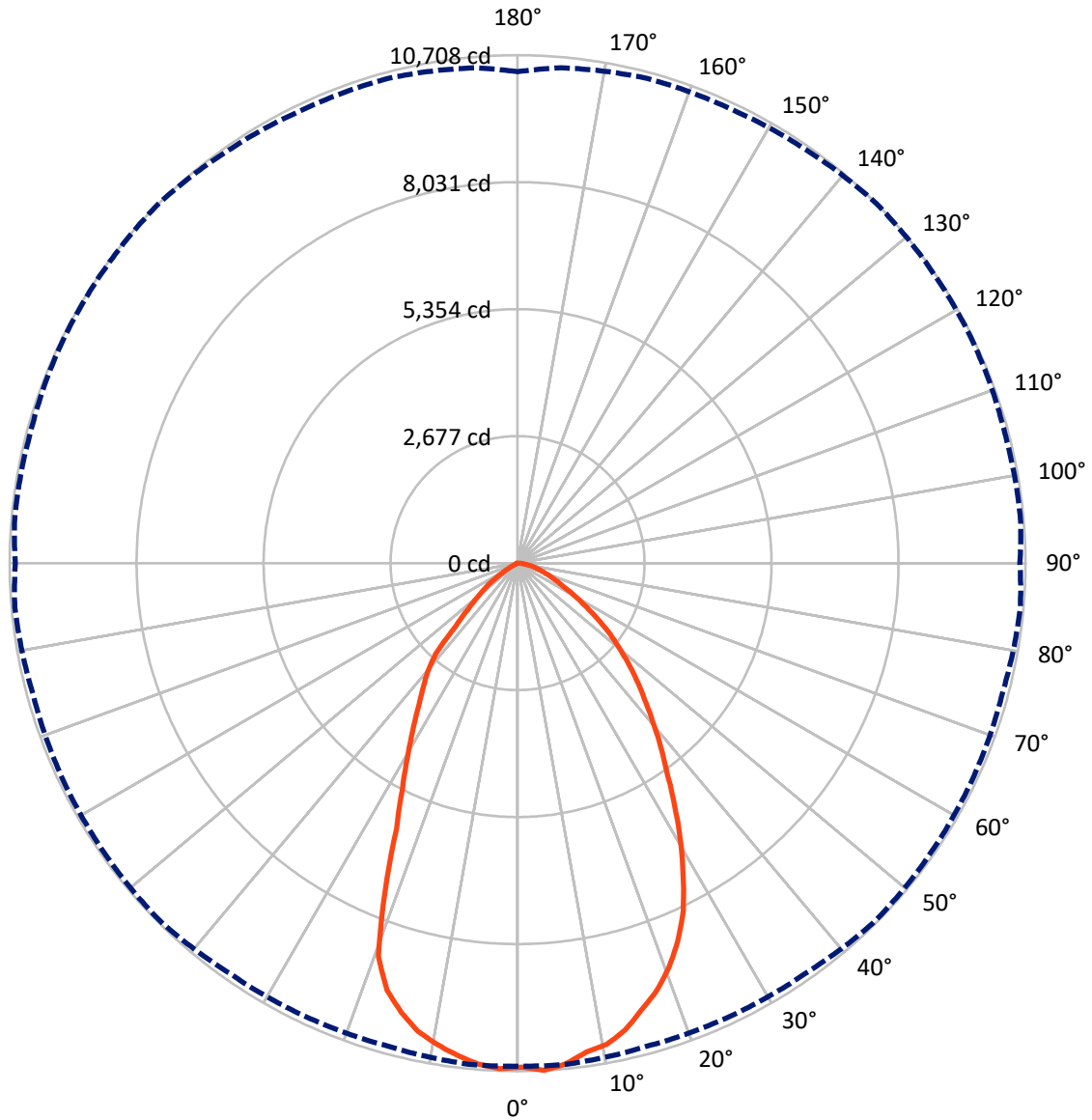
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.6 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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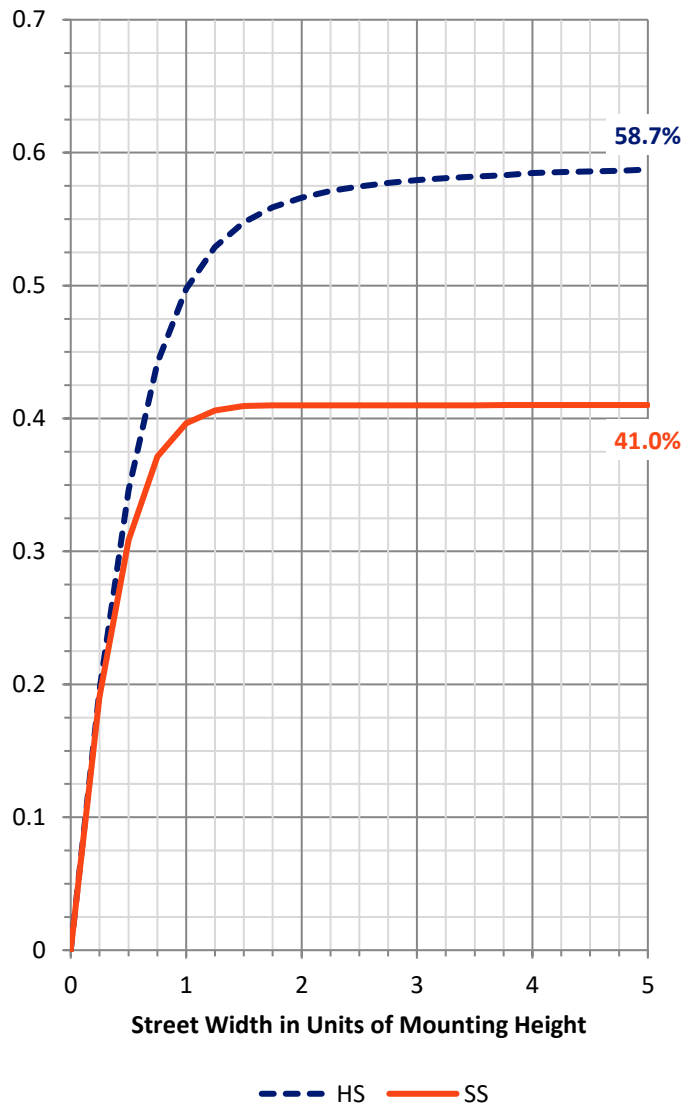
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8267.4	0.0	8267.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5691.9	0.0	5691.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	13959.3	0.0	13959.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.3	7.1
10°-20°	2671.6	19.1
20°-30°	3258.1	23.3
30°-40°	2974.6	21.3
40°-50°	2149.7	15.4
50°-60°	1173.8	8.4
60°-70°	485.3	3.5
70°-80°	196.6	1.4
80°-90°	53.5	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°	13959.3	100.0
0°-180°	13959.3	100.0



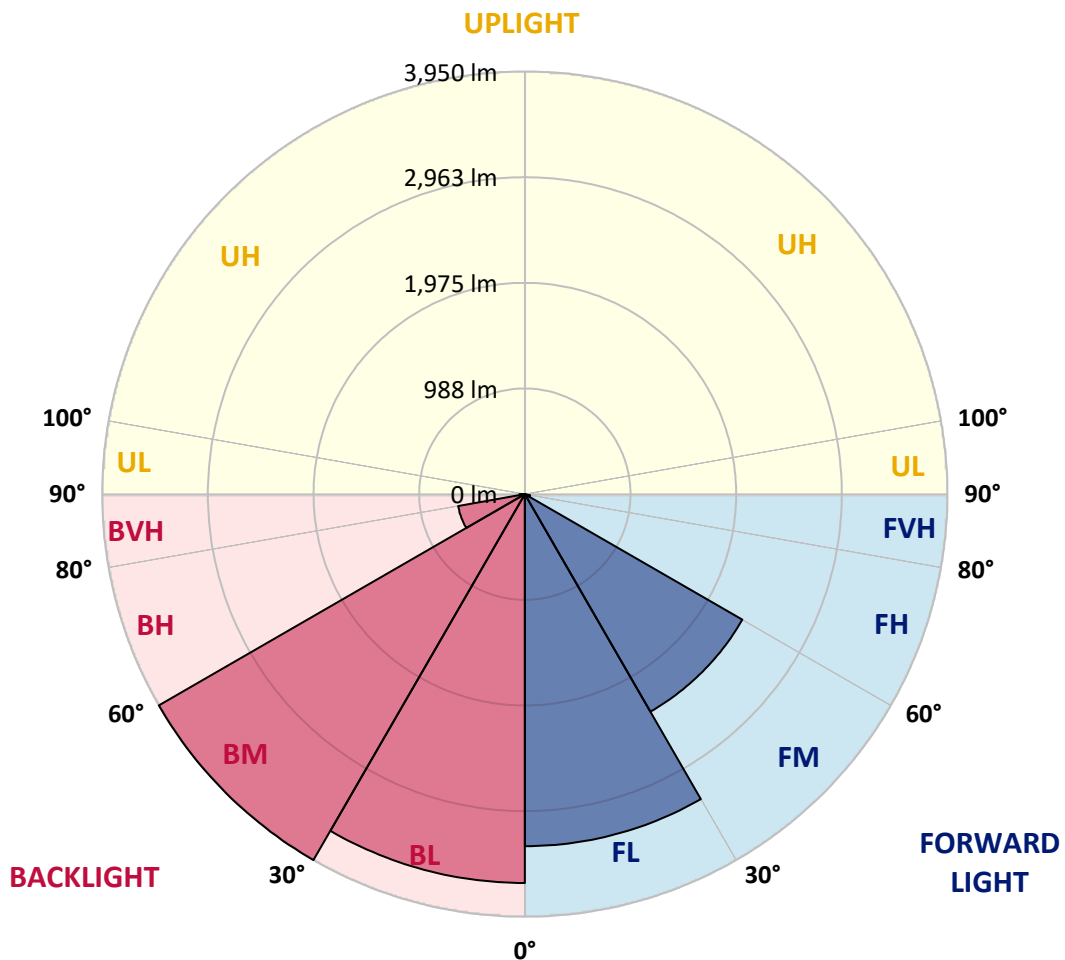
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.7	23.6			
FM (30°-60°)	2347.7	16.8			
FH (60°-80°)	49.2	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	3635.2	26.0	B4/5000		
BM (30°-60°)	3950.4	28.3	B3/5000		
BH (60°-80°)	632.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	49.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0
2.5°	10603.3	10617.1	10542.4	10550.3	10564.0	10664.3	10638.7	10615.1	10581.7	10638.7
5°	10589.6	10597.5	10518.8	10491.3	10503.1	10593.5	10511.0	10511.0	10503.1	10493.3
7.5°	10483.4	10487.4	10426.4	10377.3	10408.7	10450.0	10389.1	10418.6	10375.3	10408.7
10°	10324.2	10298.7	10225.9	10212.2	10247.5	10286.9	10245.6	10273.1	10233.8	10259.3
12.5°	10090.3	10051.0	9992.0	9974.3	10035.2	10088.3	10054.9	10039.2	9988.1	10051.0
15°	9188.0	9158.5	9292.2	9526.1	9736.4	9781.7	9746.3	9762.0	9655.8	9673.5
17.5°	7562.3	7507.3	7650.8	8205.1	8995.3	9412.1	9380.6	9278.4	9121.2	9156.5
20°	6872.3	6856.6	6840.9	6972.6	7525.0	8788.9	8832.2	8572.7	8348.6	8299.5
22.5°	6483.1	6477.2	6461.5	6491.0	6636.4	7448.3	7943.7	7703.8	7554.4	7540.7
25°	6127.3	6117.5	6070.3	6107.6	6107.6	6154.8	6789.8	6935.2	6803.5	6787.8
27.5°	5765.6	5747.9	5740.0	5757.7	5667.3	5348.9	5510.0	6219.7	6150.9	6154.8
30°	5374.4	5368.5	5346.9	5384.2	5105.1	4710.0	4607.8	5571.0	5584.7	5580.8
32.5°	4792.5	4818.1	4916.4	4957.7	4497.7	4171.4	4000.3	4820.1	5101.2	5095.3
35°	3481.4	3481.4	3801.8	4397.4	3941.4	3695.6	3603.3	4086.8	4623.5	4643.1
37.5°	2862.2	2872.0	2934.9	3206.2	3400.8	3314.3	3286.8	3440.1	4010.2	4041.6
40°	2575.2	2575.2	2575.2	2463.1	2457.2	2986.0	2970.3	2921.1	3463.7	3532.5
42.5°	2313.7	2319.6	2323.5	2040.5	1883.2	2581.1	2545.7	2471.0	2974.2	3054.8
45°	2044.4	2054.2	2066.0	1706.3	1637.5	1857.6	2154.5	2071.9	2490.6	2594.8
47.5°	1248.3	1264.0	1531.3	1446.8	1454.7	1433.0	1757.4	1743.6	2042.4	2189.9
50°	843.3	849.2	874.8	918.0	1248.3	1126.4	1244.3	1442.9	1551.0	1775.1
52.5°	707.7	717.5	654.6	595.6	819.7	880.7	868.9	1071.3	1114.6	1391.8
55°	497.3	528.8	499.3	493.4	465.9	684.1	658.5	823.7	851.2	1057.6
57.5°	51.1	59.0	102.2	367.6	304.7	387.3	469.8	603.5	631.0	780.4
60°	3.9	3.9	9.8	51.1	222.1	232.0	324.4	371.5	424.6	544.5
62.5°	0.0	2.0	3.9	7.9	35.4	123.8	163.2	194.6	255.5	351.9
65°	0.0	0.0	2.0	5.9	7.9	47.2	62.9	102.2	139.6	218.2
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	21.6	37.3	74.7	123.8
70°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	23.6	33.4	66.8
72.5°	0.0	0.0	2.0	2.0	3.9	9.8	11.8	15.7	23.6	33.4
75°	0.0	0.0	2.0	2.0	5.9	11.8	9.8	11.8	15.7	21.6
77.5°	0.0	0.0	2.0	3.9	5.9	11.8	9.8	11.8	11.8	13.8
80°	0.0	0.0	2.0	3.9	7.9	13.8	11.8	11.8	9.8	9.8
82.5°	0.0	0.0	2.0	5.9	7.9	17.7	17.7	15.7	7.9	5.9
85°	0.0	0.0	3.9	7.9	11.8	19.7	19.7	15.7	5.9	3.9
87.5°	0.0	0.0	3.9	5.9	9.8	13.8	19.7	15.7	5.9	2.0
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°
10623.0	0°	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0	10623.0
10589.6	2.5°	10642.7	10630.9	10670.2	10685.9	10707.5	10625.0	10573.9	10575.8	10481.5
10469.7	5°	10532.6	10534.5	10585.7	10581.7	10603.3	10558.1	10538.5	10505.1	10422.5
10318.3	7.5°	10393.0	10375.3	10424.5	10461.8	10406.8	10438.2	10393.0	10408.7	10359.6
10184.6	10°	10284.9	10243.6	10288.8	10314.4	10316.3	10284.9	10241.6	10200.4	10182.7
9976.3	12.5°	10045.1	9992.0	10068.7	10104.0	10098.1	10037.2	9988.1	9997.9	9940.9
9610.6	15°	9714.8	9716.8	9771.8	9805.2	9773.8	9760.0	9764.0	9740.4	9691.2
9105.4	17.5°	9209.6	9239.1	9384.6	9465.2	9482.9	9455.3	9441.6	9414.1	9364.9
8299.5	20°	8368.3	8545.2	8804.7	9054.3	9103.5	9095.6	9046.5	9034.7	9007.1
7501.4	22.5°	7629.1	7760.8	8061.6	8450.8	8651.3	8671.0	8612.0	8594.3	8564.8
6787.8	25°	6864.5	7006.0	7277.3	7699.9	8114.7	8199.2	8189.4	8136.3	8104.9
6154.8	27.5°	6219.7	6361.2	6606.9	6988.3	7432.6	7703.8	7729.4	7644.9	7642.9
5590.6	30°	5637.8	5832.4	6019.2	6329.8	6760.3	7167.2	7210.4	7151.5	7157.4
5073.6	32.5°	5181.8	5343.0	5502.2	5710.6	6068.3	6542.1	6711.1	6656.1	6634.5
4643.1	35°	4715.9	4826.0	4989.1	5179.8	5423.6	5893.4	6186.3	6145.0	6123.4
4061.3	37.5°	4185.1	4373.8	4491.8	4706.0	4896.7	5270.2	5683.0	5677.1	5631.9
3565.9	40°	3640.6	3839.1	4018.0	4234.3	4381.7	4678.5	5136.5	5134.6	5140.5
3052.8	42.5°	3147.2	3330.0	3546.2	3782.1	3923.7	4139.9	4631.3	4658.9	4692.3
2630.2	45°	2701.0	2866.1	3066.6	3353.6	3524.6	3648.5	4084.9	4210.7	4208.7
2252.8	47.5°	2299.9	2455.2	2624.3	2903.4	3121.6	3233.7	3595.4	3774.3	3762.5
1847.8	50°	1930.4	2068.0	2244.9	2447.4	2740.3	2838.6	3107.9	3343.8	3326.1
1472.4	52.5°	1553.0	1743.6	1893.0	2077.8	2386.4	2482.8	2691.1	2921.1	2907.4
1104.8	55°	1210.9	1395.7	1576.5	1735.8	1995.3	2138.8	2288.2	2524.0	2520.1
864.9	57.5°	916.0	1118.5	1289.5	1440.9	1647.3	1824.2	1944.1	2158.4	2185.9
591.7	60°	678.2	833.5	1018.3	1187.3	1350.5	1533.3	1613.9	1824.2	1836.0
404.9	62.5°	462.0	633.0	813.8	967.2	1089.0	1277.7	1350.5	1523.5	1545.1
259.5	65°	320.4	430.5	636.9	747.0	896.4	1057.6	1130.3	1267.9	1311.2
149.4	67.5°	212.3	306.7	497.3	597.6	745.0	855.1	947.5	1059.5	1106.7
94.4	70°	116.0	226.1	355.8	471.8	599.6	705.7	796.1	886.6	927.8
43.2	72.5°	78.6	151.4	247.7	373.5	483.6	587.8	668.4	735.2	737.2
25.6	75°	39.3	102.2	188.7	289.0	377.4	479.6	552.4	591.7	544.5
15.7	77.5°	23.6	74.7	153.3	232.0	306.7	387.3	428.5	450.2	373.5
11.8	80°	13.8	53.1	119.9	184.8	212.3	285.0	324.4	330.2	249.7
7.9	82.5°	9.8	39.3	94.4	135.6	129.7	200.5	243.8	235.9	159.2
5.9	85°	5.9	27.5	59.0	84.5	78.6	131.7	141.5	145.5	92.4
3.9	87.5°	3.9	15.7	31.5	45.2	37.3	57.0	57.0	68.8	45.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10623.0
10359.6
10402.8
10277.0
10104.0
9891.7
9642.1
9343.3
8944.2
8557.0
8071.4
7639.0
7127.9
6636.4
6093.9
5669.3
5140.5
4674.6
4212.6
3766.4
3341.8
2936.9
2529.9
2174.1
1853.7
1549.0
1301.3
1100.8
912.1
719.5
509.1
359.7
233.9
147.4
84.5
39.3
0.0

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