

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: P638058

Luminaire Tested: **IFLD-M-SA4B-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12940.4 lumens
Efficiency: N/A
Efficacy: 77.9 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



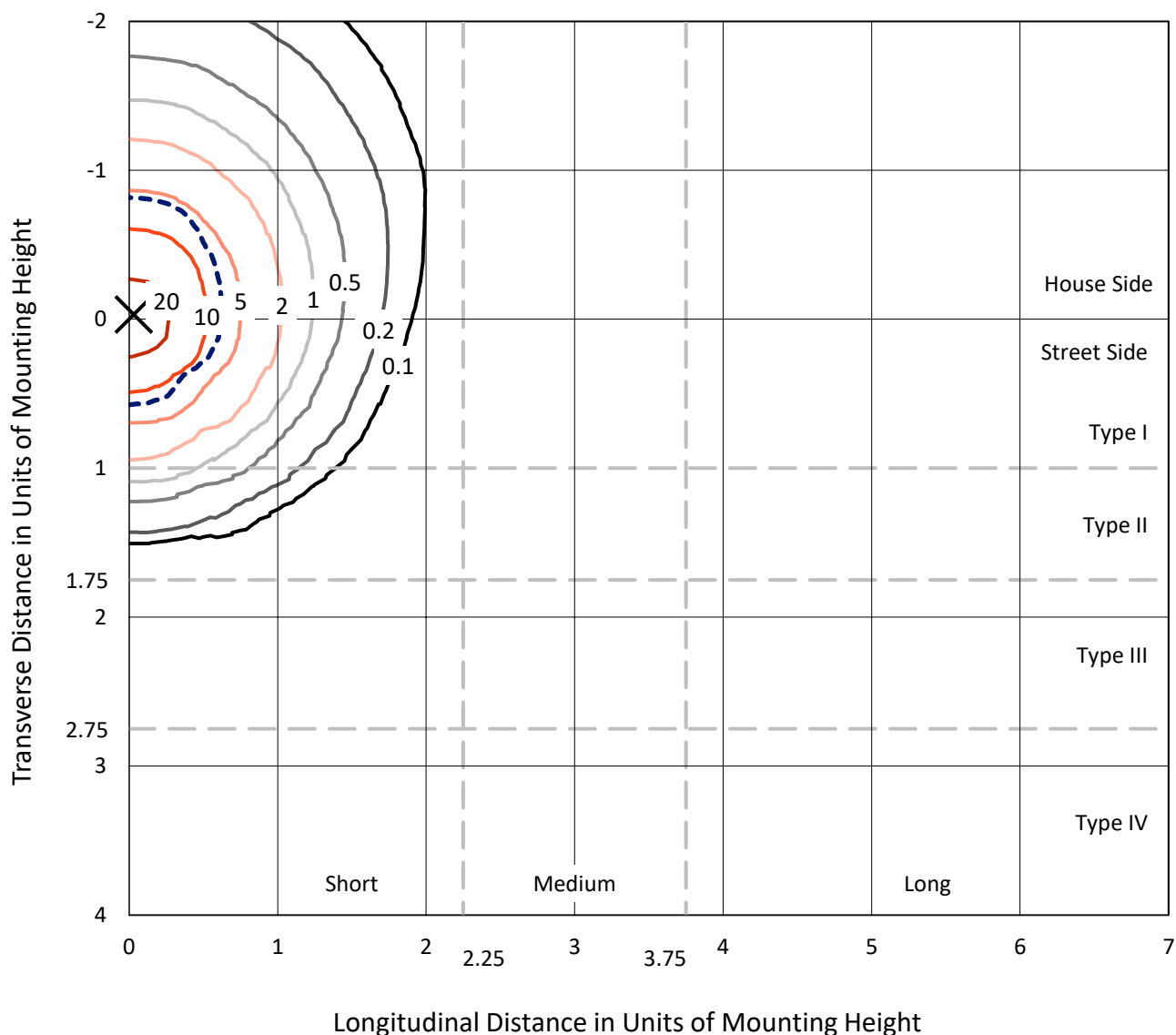
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

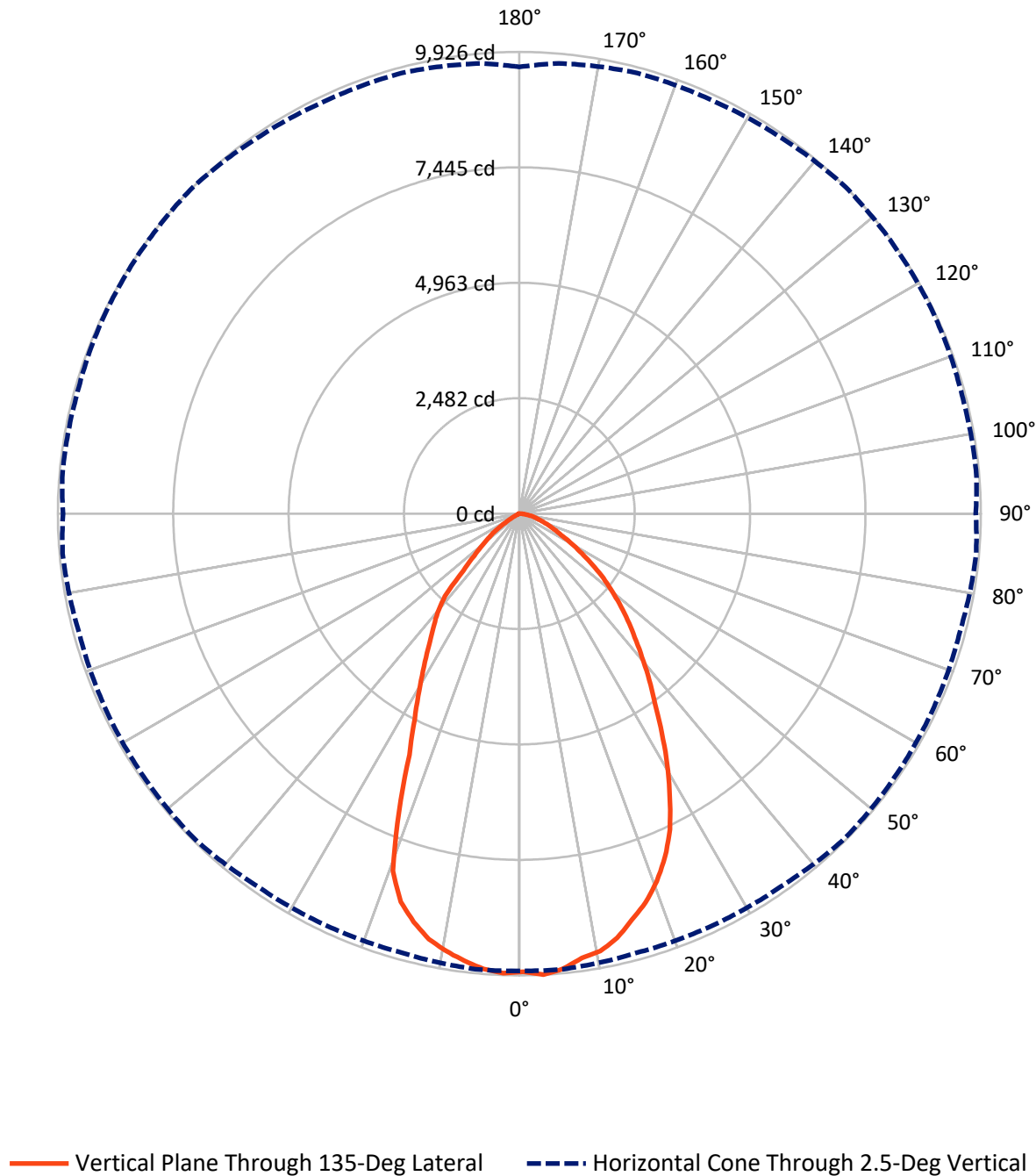


Based on 20 foot mounting height. Maximum calculated value = 24.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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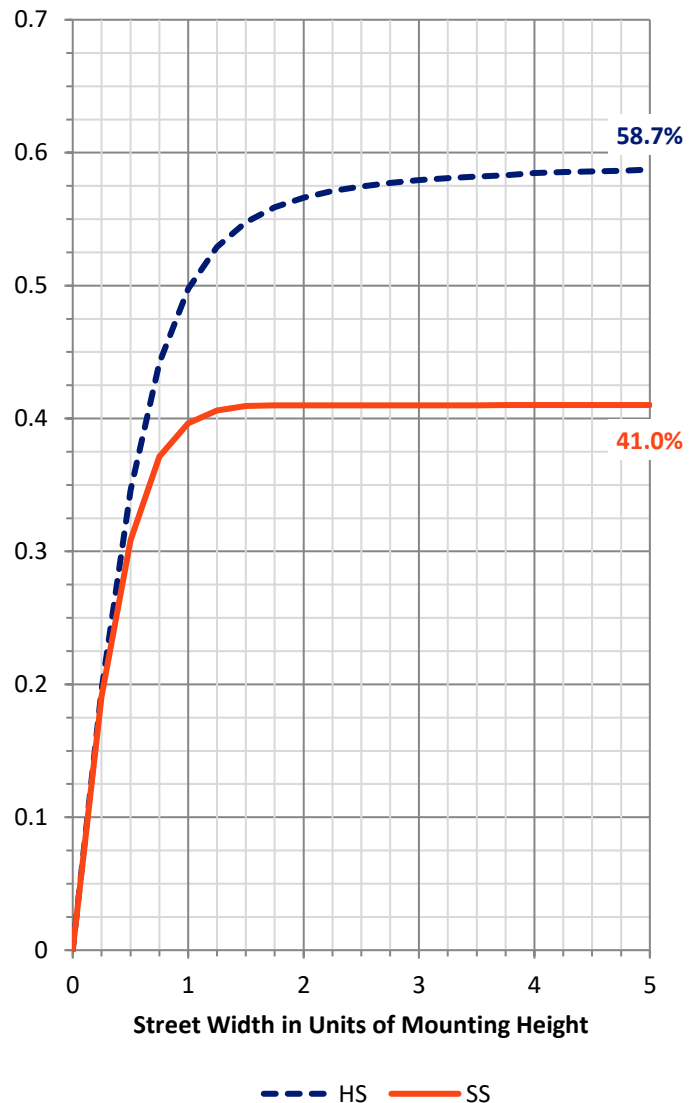
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7664.0	0.0	7664.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5276.4	0.0	5276.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	12940.4	0.0	12940.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.5	7.1
10°-20°	2476.6	19.1
20°-30°	3020.3	23.3
30°-40°	2757.5	21.3
40°-50°	1992.8	15.4
50°-60°	1088.1	8.4
60°-70°	449.9	3.5
70°-80°	182.2	1.4
80°-90°	49.6	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°	12940.4	100.0
0°-180°	12940.4	100.0

Coefficient of Utilization



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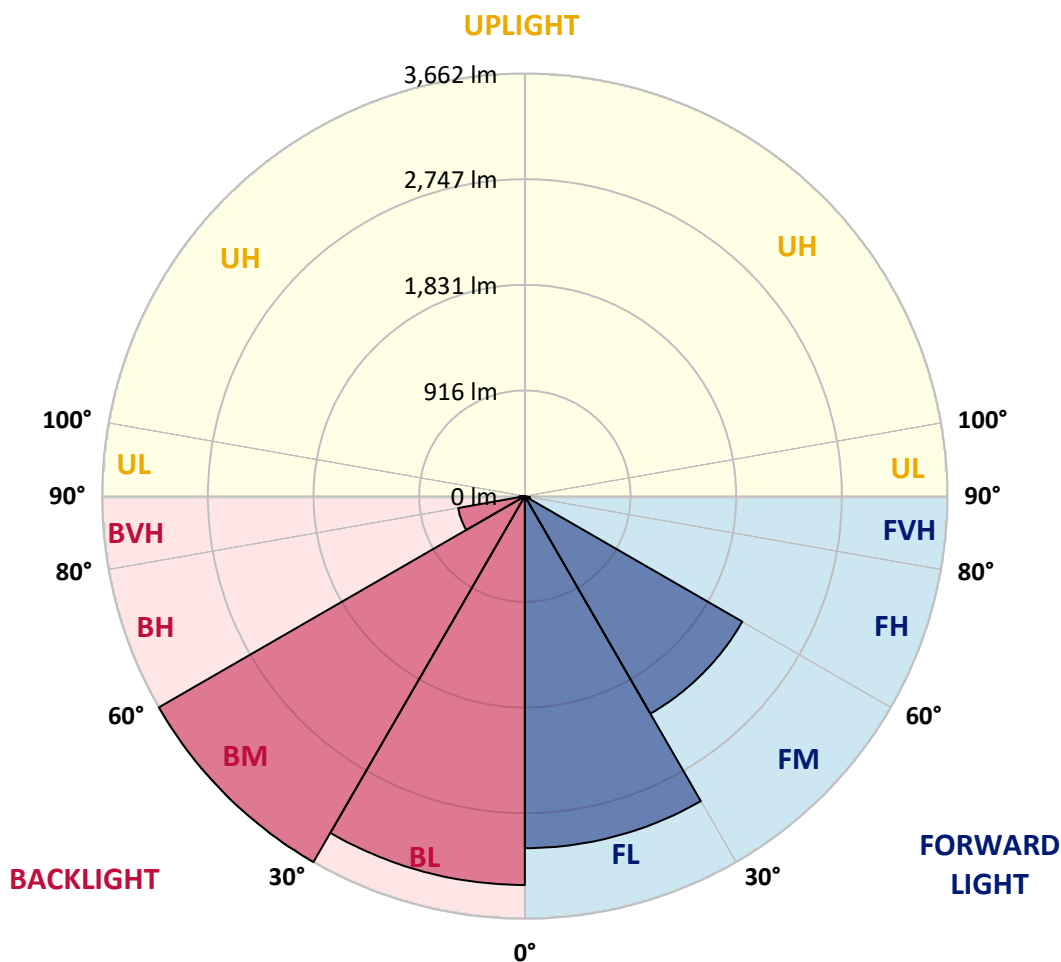
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3050.5	23.6			
FM	(30°-60°)	2176.3	16.8			
FH	(60°-80°)	45.6	0.4			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	3369.9	26.0	B4/5000		
BM	(30°-60°)	3662.0	28.3	B3/5000		
BH	(60°-80°)	586.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	45.6	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°	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6
2.5°	9829.4	9842.1	9772.9	9780.2	9792.9	9885.9	9862.2	9840.3	9809.3	9862.2
5°	9816.6	9823.9	9751.0	9725.5	9736.4	9820.3	9743.7	9743.7	9736.4	9727.3
7.5°	9718.2	9721.9	9665.4	9619.8	9649.0	9687.2	9630.8	9658.1	9618.0	9649.0
10°	9570.6	9546.9	9479.5	9466.7	9499.5	9536.0	9497.7	9523.2	9486.8	9510.5
12.5°	9353.8	9317.3	9262.7	9246.3	9302.7	9351.9	9321.0	9306.4	9259.0	9317.3
15°	8517.3	8490.0	8613.9	8830.8	9025.8	9067.7	9034.9	9049.4	8951.0	8967.4
17.5°	7010.3	6959.3	7092.3	7606.2	8338.8	8725.1	8695.9	8601.2	8455.4	8488.2
20°	6370.7	6356.1	6341.5	6463.6	6975.7	8147.4	8187.5	7947.0	7739.2	7693.7
22.5°	6009.9	6004.4	5989.8	6017.2	6152.0	6904.6	7363.8	7141.5	7003.0	6990.3
25°	5680.0	5670.9	5627.2	5661.8	5661.8	5705.6	6294.2	6429.0	6306.9	6292.3
27.5°	5344.7	5328.3	5321.1	5337.5	5253.6	4958.4	5107.9	5765.7	5701.9	5705.6
30°	4982.1	4976.6	4956.6	4991.2	4732.5	4366.2	4271.4	5164.3	5177.1	5173.5
32.5°	4442.7	4466.4	4557.5	4595.8	4169.4	3866.9	3708.3	4468.2	4728.8	4723.4
35°	3227.3	3227.3	3524.3	4076.4	3653.7	3425.9	3340.2	3788.5	4286.0	4304.2
37.5°	2653.2	2662.4	2720.7	2972.1	3152.5	3072.4	3046.9	3189.0	3717.5	3746.6
40°	2387.2	2387.2	2387.2	2283.3	2277.9	2768.0	2753.5	2707.9	3210.9	3274.6
42.5°	2144.8	2150.3	2153.9	1891.5	1745.7	2392.7	2359.9	2290.6	2757.1	2831.8
45°	1895.2	1904.3	1915.2	1581.7	1518.0	1722.1	1997.2	1920.7	2308.8	2405.4
47.5°	1157.1	1171.7	1419.6	1341.2	1348.5	1328.4	1629.1	1616.4	1893.3	2030.0
50°	781.8	787.2	810.9	851.0	1157.1	1044.2	1153.5	1337.6	1437.8	1645.5
52.5°	656.0	665.1	606.8	552.2	759.9	816.4	805.4	993.1	1033.2	1290.2
55°	461.0	490.2	462.9	457.4	431.9	634.2	610.5	763.5	789.0	980.4
57.5°	47.4	54.7	94.8	340.8	282.5	359.0	435.5	559.4	585.0	723.4
60°	3.6	3.6	9.1	47.4	205.9	215.0	300.7	344.4	393.6	504.8
62.5°	0.0	1.8	3.6	7.3	32.8	114.8	151.2	180.4	236.9	326.2
65°	0.0	0.0	1.8	5.5	7.3	43.7	58.3	94.8	129.4	202.3
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.0	34.6	69.2	114.8
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	31.0	62.0
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.6	21.9	31.0
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.6	20.0
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.8
80°	0.0	0.0	1.8	3.6	7.3	12.8	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.6	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.6	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.8	18.2	14.6	5.5	1.8
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°
9847.6	0°	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6	9847.6
9816.6	2.5°	9865.8	9854.9	9891.3	9905.9	9926.0	9849.4	9802.0	9803.9	9716.4
9705.5	5°	9763.8	9765.6	9813.0	9809.3	9829.4	9787.5	9769.2	9738.3	9661.7
9565.1	7.5°	9634.4	9618.0	9663.6	9698.2	9647.2	9676.3	9634.4	9649.0	9603.4
9441.2	10°	9534.2	9495.9	9537.8	9561.5	9563.3	9534.2	9494.1	9455.8	9439.4
9248.1	12.5°	9311.9	9262.7	9333.7	9366.5	9361.1	9304.6	9259.0	9268.1	9215.3
8909.1	15°	9005.7	9007.5	9058.6	9089.5	9060.4	9047.6	9051.3	9029.4	8983.8
8440.8	17.5°	8537.4	8564.7	8699.6	8774.3	8790.7	8765.2	8752.4	8726.9	8681.3
7693.7	20°	7757.4	7921.5	8162.0	8393.4	8439.0	8431.7	8386.1	8375.2	8349.7
6953.8	22.5°	7072.3	7194.4	7473.2	7834.0	8019.9	8038.1	7983.4	7967.0	7939.7
6292.3	25°	6363.4	6494.6	6746.1	7137.9	7522.4	7600.7	7591.6	7542.4	7513.3
5705.6	27.5°	5765.7	5896.9	6124.7	6478.2	6890.0	7141.5	7165.2	7086.8	7085.0
5182.6	30°	5226.3	5406.7	5579.8	5867.7	6266.8	6644.0	6684.1	6629.5	6634.9
4703.3	32.5°	4803.5	4953.0	5100.6	5293.7	5625.4	6064.5	6221.3	6170.2	6150.2
4304.2	35°	4371.7	4473.7	4624.9	4801.7	5027.7	5463.2	5734.7	5696.4	5676.4
3764.8	37.5°	3879.6	4054.6	4163.9	4362.5	4539.3	4885.5	5268.2	5262.7	5220.8
3305.6	40°	3374.9	3558.9	3724.7	3925.2	4061.9	4337.0	4761.6	4759.8	4765.3
2830.0	42.5°	2917.5	3086.9	3287.4	3506.1	3637.3	3837.7	4293.3	4318.8	4349.8
2438.2	45°	2503.8	2656.9	2842.8	3108.8	3267.3	3382.2	3786.7	3903.3	3901.5
2088.3	47.5°	2132.1	2276.0	2432.7	2691.5	2893.8	2997.7	3333.0	3498.8	3487.8
1712.9	50°	1789.5	1917.0	2081.0	2268.7	2540.3	2631.4	2881.0	3099.7	3083.3
1364.9	52.5°	1439.6	1616.4	1754.9	1926.2	2212.2	2301.5	2494.7	2707.9	2695.2
1024.1	55°	1122.5	1293.8	1461.5	1609.1	1849.6	1982.6	2121.1	2339.8	2336.2
801.8	57.5°	849.2	1036.9	1195.4	1335.7	1527.1	1691.1	1802.2	2000.9	2026.4
548.5	60°	628.7	772.6	943.9	1100.7	1251.9	1421.4	1496.1	1691.1	1702.0
375.4	62.5°	428.2	586.8	754.4	896.6	1009.5	1184.5	1251.9	1412.3	1432.3
240.5	65°	297.0	399.1	590.4	692.5	831.0	980.4	1047.8	1175.4	1215.5
138.5	67.5°	196.8	284.3	461.0	554.0	690.6	792.7	878.3	982.2	1025.9
87.5	70°	107.5	209.6	329.8	437.3	555.8	654.2	738.0	821.8	860.1
40.1	72.5°	72.9	140.3	229.6	346.2	448.3	544.9	619.6	681.5	683.4
23.7	75°	36.4	94.8	174.9	267.9	349.9	444.6	512.1	548.5	504.8
14.6	77.5°	21.9	69.2	142.1	215.0	284.3	359.0	397.3	417.3	346.2
10.9	80°	12.8	49.2	111.2	171.3	196.8	264.2	300.7	306.1	231.4
7.3	82.5°	9.1	36.4	87.5	125.7	120.3	185.9	226.0	218.7	147.6
5.5	85°	5.5	25.5	54.7	78.4	72.9	122.1	131.2	134.8	85.6
3.6	87.5°	3.6	14.6	29.2	41.9	34.6	52.8	52.8	63.8	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
9847.6
9603.4
9643.5
9526.9
9366.5
9169.7
8938.3
8661.3
8291.4
7932.4
7482.3
7081.4
6607.6
6152.0
5649.1
5255.5
4765.3
4333.4
3905.1
3491.5
3097.9
2722.5
2345.3
2015.4
1718.4
1436.0
1206.3
1020.5
845.5
667.0
472.0
333.5
216.9
136.7
78.4
36.4
0.0

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