

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: P636811

Luminaire Tested: **IFLD-M-SA4B-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12694.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

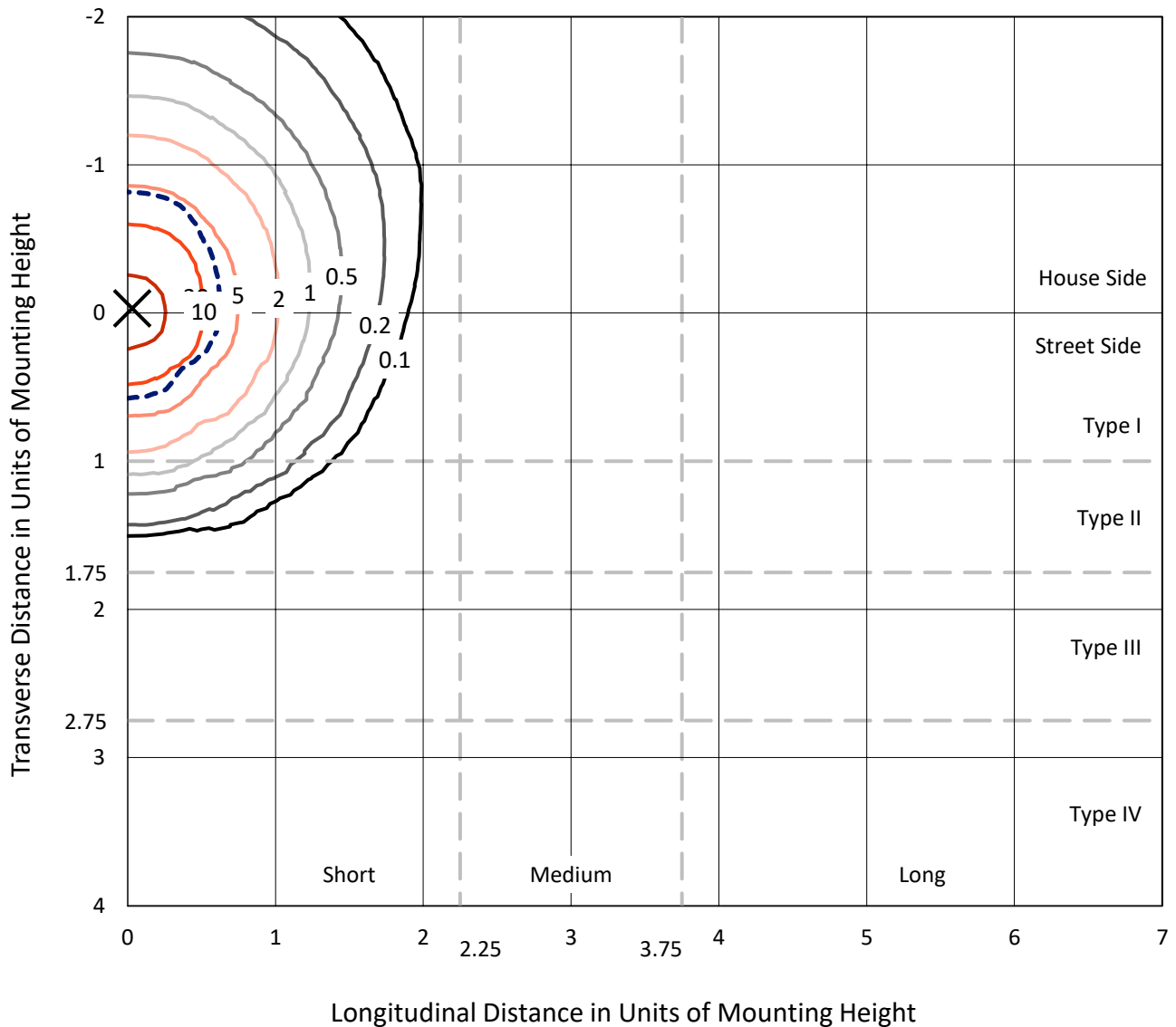
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

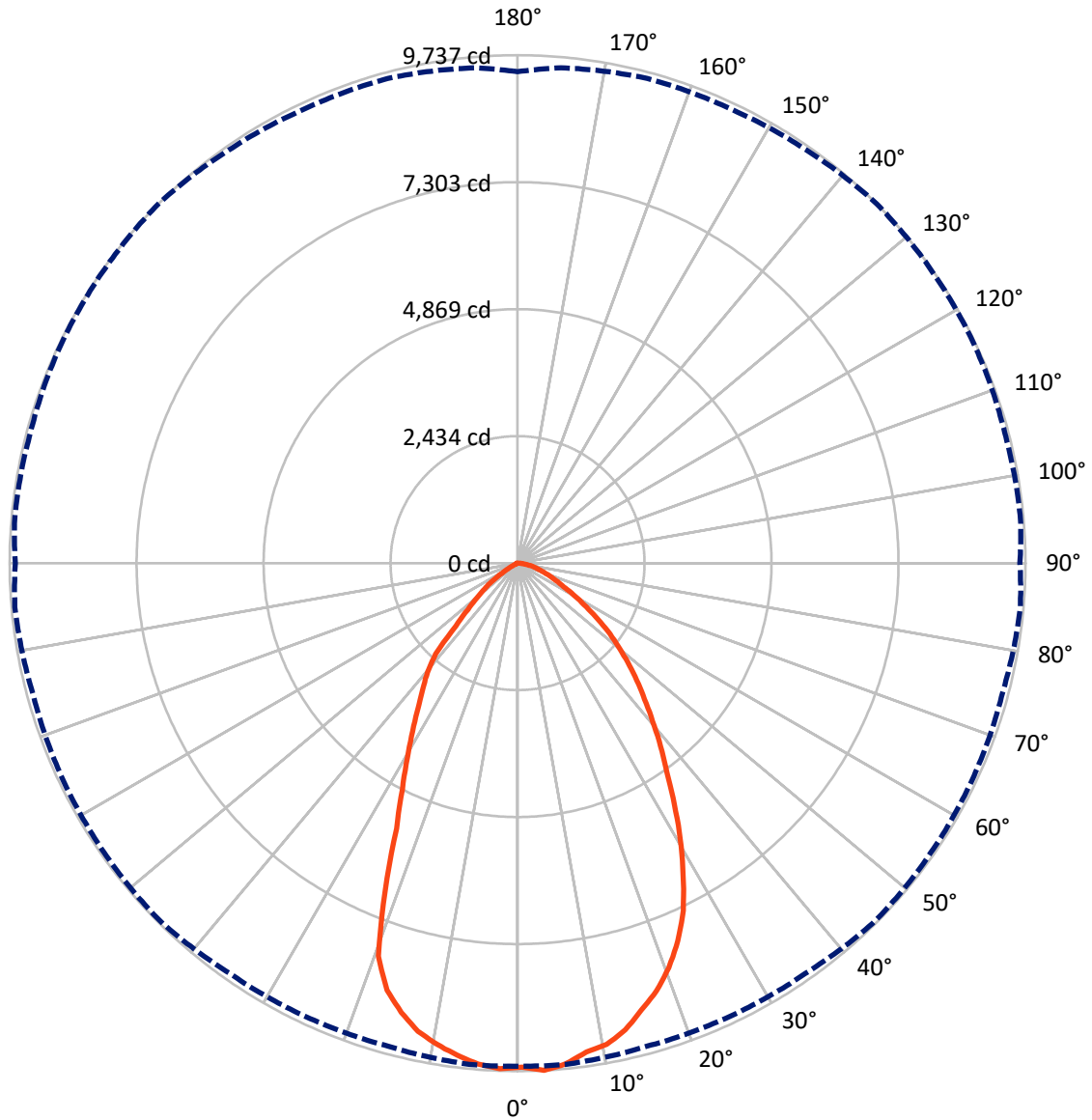
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.2 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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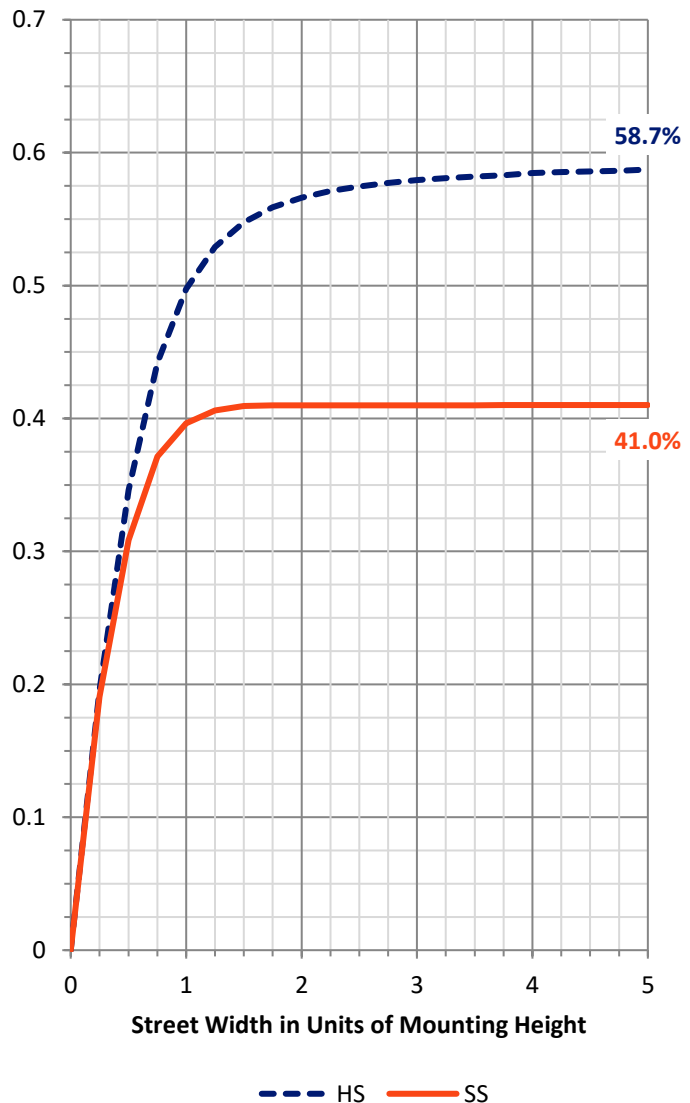
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7518.3	0.0	7518.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5176.2	0.0	5176.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	12694.5	0.0	12694.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.0	7.1
10°-20°	2429.5	19.1
20°-30°	2962.9	23.3
30°-40°	2705.1	21.3
40°-50°	1954.9	15.4
50°-60°	1067.4	8.4
60°-70°	441.3	3.5
70°-80°	178.7	1.4
80°-90°	48.6	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°	12694.5	100.0
0°-180°	12694.5	100.0



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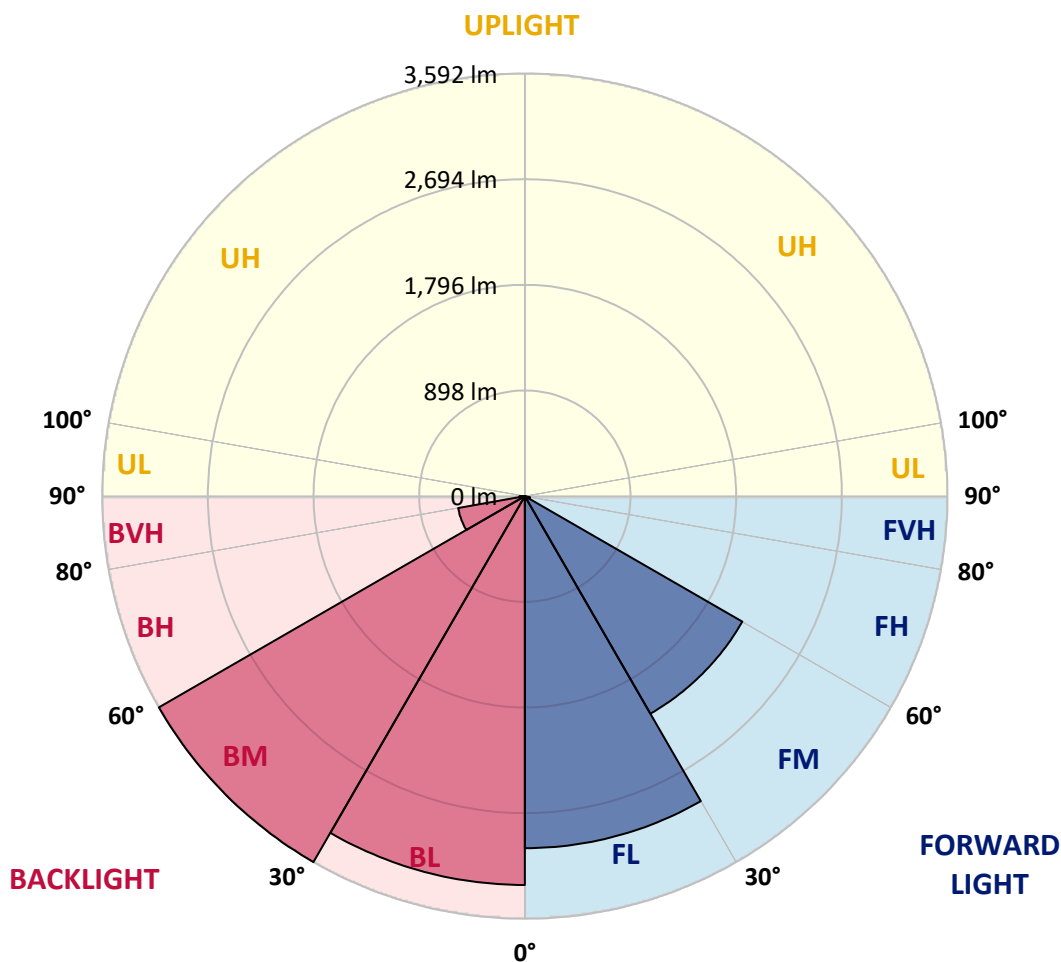
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2992.5	23.6			
FM	(30°-60°)	2135.0	16.8			
FH	(60°-80°)	44.7	0.4			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	3305.8	26.0	B4/5000		
BM	(30°-60°)	3592.4	28.3	B3/5000		
BH	(60°-80°)	575.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	44.7	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°	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4
2.5°	9642.6	9655.1	9587.1	9594.3	9606.8	9698.0	9674.7	9653.3	9622.9	9674.7
5°	9630.0	9637.2	9565.7	9540.7	9551.4	9633.6	9558.5	9558.5	9551.4	9542.5
7.5°	9533.5	9537.1	9481.7	9437.0	9465.6	9503.1	9447.7	9474.5	9435.2	9465.6
10°	9388.7	9365.5	9299.3	9286.8	9319.0	9354.7	9317.2	9342.2	9306.5	9329.7
12.5°	9176.0	9140.2	9086.6	9070.5	9125.9	9174.2	9143.8	9129.5	9083.0	9140.2
15°	8355.5	8328.6	8450.2	8662.9	8854.2	8895.3	8863.1	8877.4	8780.9	8797.0
17.5°	6877.1	6827.0	6957.5	7461.6	8180.3	8559.2	8530.6	8437.7	8294.7	8326.9
20°	6249.6	6235.3	6221.0	6340.8	6843.1	7992.6	8031.9	7795.9	7592.1	7547.4
22.5°	5895.7	5890.3	5876.0	5902.8	6035.1	6773.4	7223.9	7005.8	6869.9	6857.4
25°	5572.1	5563.2	5520.2	5554.2	5554.2	5597.1	6174.5	6306.8	6187.0	6172.7
27.5°	5243.2	5227.1	5219.9	5236.0	5153.8	4864.2	5010.8	5656.1	5593.5	5597.1
30°	4887.4	4882.1	4862.4	4896.4	4642.5	4283.2	4190.2	5066.2	5078.7	5075.1
32.5°	4358.3	4381.5	4470.9	4508.4	4090.1	3793.4	3637.9	4383.3	4638.9	4633.6
35°	3165.9	3165.9	3457.3	3999.0	3584.2	3360.8	3276.8	3716.5	4204.5	4222.4
37.5°	2602.8	2611.8	2669.0	2915.7	3092.6	3014.0	2988.9	3128.4	3646.8	3675.4
40°	2341.8	2341.8	2341.8	2239.9	2234.6	2715.4	2701.1	2656.4	3149.8	3212.4
42.5°	2104.1	2109.4	2113.0	1855.6	1712.6	2347.2	2315.0	2247.1	2704.7	2778.0
45°	1859.2	1868.1	1878.8	1551.7	1489.1	1689.3	1959.3	1884.2	2264.9	2359.7
47.5°	1135.2	1149.5	1392.6	1315.7	1322.9	1303.2	1598.2	1585.6	1857.4	1991.4
50°	766.9	772.3	795.5	834.8	1135.2	1024.3	1131.6	1312.1	1410.5	1614.2
52.5°	643.6	652.5	595.3	541.7	745.4	800.9	790.1	974.3	1013.6	1265.7
55°	452.3	480.9	454.1	448.7	423.7	622.1	598.9	749.0	774.1	961.8
57.5°	46.5	53.6	93.0	334.3	277.1	352.2	427.2	548.8	573.8	709.7
60°	3.6	3.6	8.9	46.5	202.0	210.9	295.0	337.9	386.1	495.2
62.5°	0.0	1.8	3.6	7.2	32.2	112.6	148.4	177.0	232.4	320.0
65°	0.0	0.0	1.8	5.4	7.2	42.9	57.2	93.0	126.9	198.4
67.5°	0.0	0.0	1.8	3.6	5.4	10.7	19.7	34.0	67.9	112.6
70°	0.0	0.0	1.8	3.6	5.4	8.9	14.3	21.5	30.4	60.8
72.5°	0.0	0.0	1.8	1.8	3.6	8.9	10.7	14.3	21.5	30.4
75°	0.0	0.0	1.8	1.8	5.4	10.7	8.9	10.7	14.3	19.7
77.5°	0.0	0.0	1.8	3.6	5.4	10.7	8.9	10.7	10.7	12.5
80°	0.0	0.0	1.8	3.6	7.2	12.5	10.7	10.7	8.9	8.9
82.5°	0.0	0.0	1.8	5.4	7.2	16.1	16.1	14.3	7.2	5.4
85°	0.0	0.0	3.6	7.2	10.7	17.9	17.9	14.3	5.4	3.6
87.5°	0.0	0.0	3.6	5.4	8.9	12.5	17.9	14.3	5.4	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°
9660.4	0°	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4	9660.4
9630.0	2.5°	9678.3	9667.6	9703.3	9717.6	9737.3	9662.2	9615.7	9617.5	9531.7
9521.0	5°	9578.2	9580.0	9626.5	9622.9	9642.6	9601.4	9583.6	9553.2	9478.1
9383.4	7.5°	9451.3	9435.2	9479.9	9513.9	9463.8	9492.4	9451.3	9465.6	9420.9
9261.8	10°	9353.0	9315.4	9356.5	9379.8	9381.6	9353.0	9313.6	9276.1	9260.0
9072.3	12.5°	9134.9	9086.6	9156.3	9188.5	9183.1	9127.7	9083.0	9092.0	9040.1
8739.8	15°	8834.5	8836.3	8886.4	8916.8	8888.2	8875.7	8879.2	8857.8	8813.1
8280.4	17.5°	8375.1	8401.9	8534.2	8607.5	8623.6	8598.6	8586.1	8561.0	8516.3
7547.4	20°	7610.0	7770.9	8006.9	8233.9	8278.6	8271.4	8226.7	8216.0	8191.0
6821.7	22.5°	6937.9	7057.6	7331.1	7685.1	7867.4	7885.3	7831.7	7815.6	7788.8
6172.7	25°	6242.5	6371.2	6617.9	7002.2	7379.4	7456.3	7447.3	7399.1	7370.5
5597.1	27.5°	5656.1	5784.8	6008.3	6355.1	6759.1	7005.8	7029.0	6952.2	6950.4
5084.1	30°	5127.0	5303.9	5473.8	5756.2	6147.7	6517.8	6557.1	6503.5	6508.8
4613.9	32.5°	4712.2	4858.8	5003.6	5193.1	5518.5	5949.3	6103.0	6053.0	6033.3
4222.4	35°	4288.6	4388.7	4537.0	4710.4	4932.1	5359.4	5625.7	5588.2	5568.5
3693.3	37.5°	3805.9	3977.5	4084.8	4279.6	4453.0	4792.7	5168.1	5162.7	5121.6
3242.8	40°	3310.7	3491.3	3653.9	3850.6	3984.7	4254.6	4671.1	4669.3	4674.7
2776.2	42.5°	2862.0	3028.3	3224.9	3439.4	3568.1	3764.8	4211.7	4236.7	4267.1
2391.9	45°	2456.2	2606.4	2788.7	3049.7	3205.2	3317.9	3714.7	3829.1	3827.3
2048.6	47.5°	2091.5	2232.8	2386.5	2640.4	2838.8	2940.7	3269.6	3432.3	3421.6
1680.4	50°	1755.5	1880.6	2041.5	2225.6	2492.0	2581.4	2826.3	3040.8	3024.7
1338.9	52.5°	1412.2	1585.6	1721.5	1889.5	2170.2	2257.8	2447.3	2656.4	2643.9
1004.7	55°	1101.2	1269.2	1433.7	1578.5	1814.5	1945.0	2080.8	2295.3	2291.8
786.6	57.5°	833.0	1017.2	1172.7	1310.3	1498.0	1658.9	1768.0	1962.8	1987.9
538.1	60°	616.7	758.0	926.0	1079.7	1228.1	1394.4	1467.7	1658.9	1669.7
368.3	62.5°	420.1	575.6	740.1	879.5	990.4	1162.0	1228.1	1385.4	1405.1
236.0	65°	291.4	391.5	579.2	679.3	815.2	961.8	1027.9	1153.0	1192.4
135.9	67.5°	193.1	278.9	452.3	543.4	677.5	777.6	861.6	963.5	1006.4
85.8	70°	105.5	205.6	323.6	429.0	545.2	641.8	724.0	806.2	843.8
39.3	72.5°	71.5	137.6	225.2	339.7	439.8	534.5	607.8	668.6	670.4
23.2	75°	35.8	93.0	171.6	262.8	343.2	436.2	502.3	538.1	495.2
14.3	77.5°	21.5	67.9	139.4	210.9	278.9	352.2	389.7	409.4	339.7
10.7	80°	12.5	48.3	109.0	168.0	193.1	259.2	295.0	300.3	227.0
7.2	82.5°	8.9	35.8	85.8	123.3	118.0	182.3	221.7	214.5	144.8
5.4	85°	5.4	25.0	53.6	76.9	71.5	119.8	128.7	132.3	84.0
3.6	87.5°	3.6	14.3	28.6	41.1	34.0	51.8	51.8	62.6	41.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9660.4
9420.9
9460.2
9345.8
9188.5
8995.4
8768.4
8496.7
8133.8
7781.6
7340.1
6946.8
6482.0
6035.1
5541.7
5155.6
4674.7
4251.0
3830.9
3425.1
3039.0
2670.7
2300.7
1977.1
1685.7
1408.7
1183.4
1001.1
829.5
654.3
463.0
327.1
212.7
134.1
76.9
35.8
0.0

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