

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: P636805

Luminaire Tested: **IFLD-S-SA6A-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15001.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

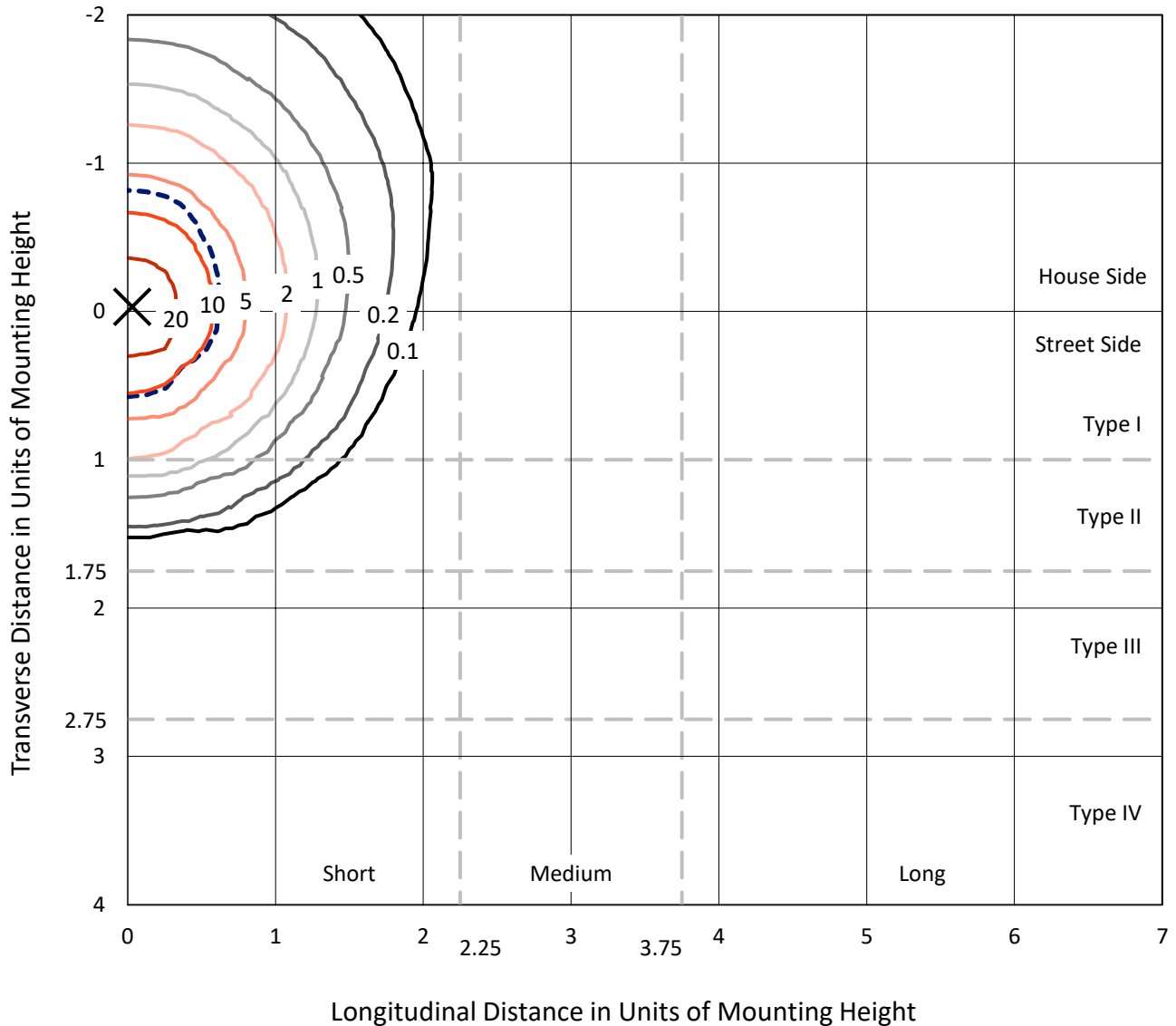
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

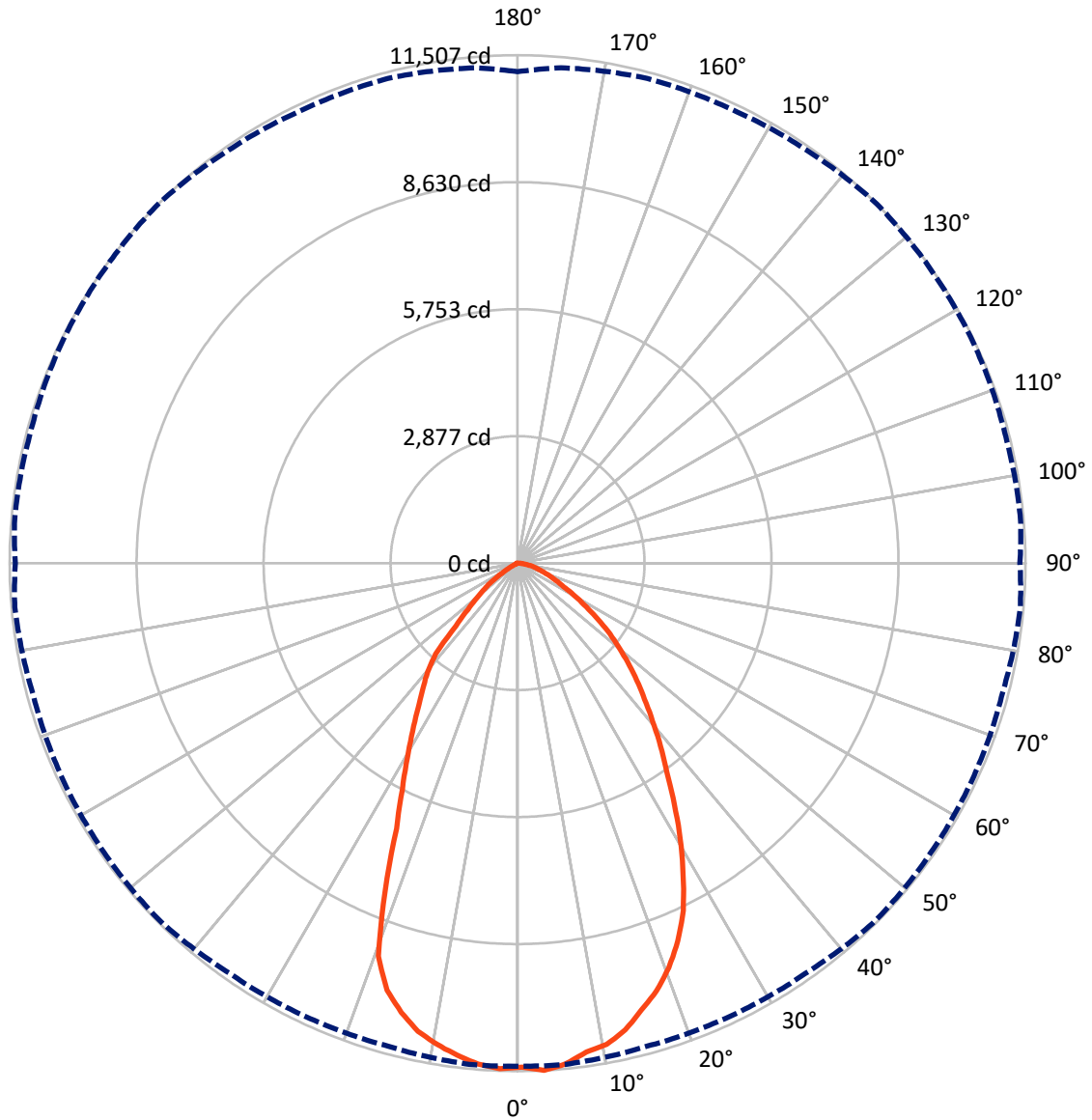
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.5 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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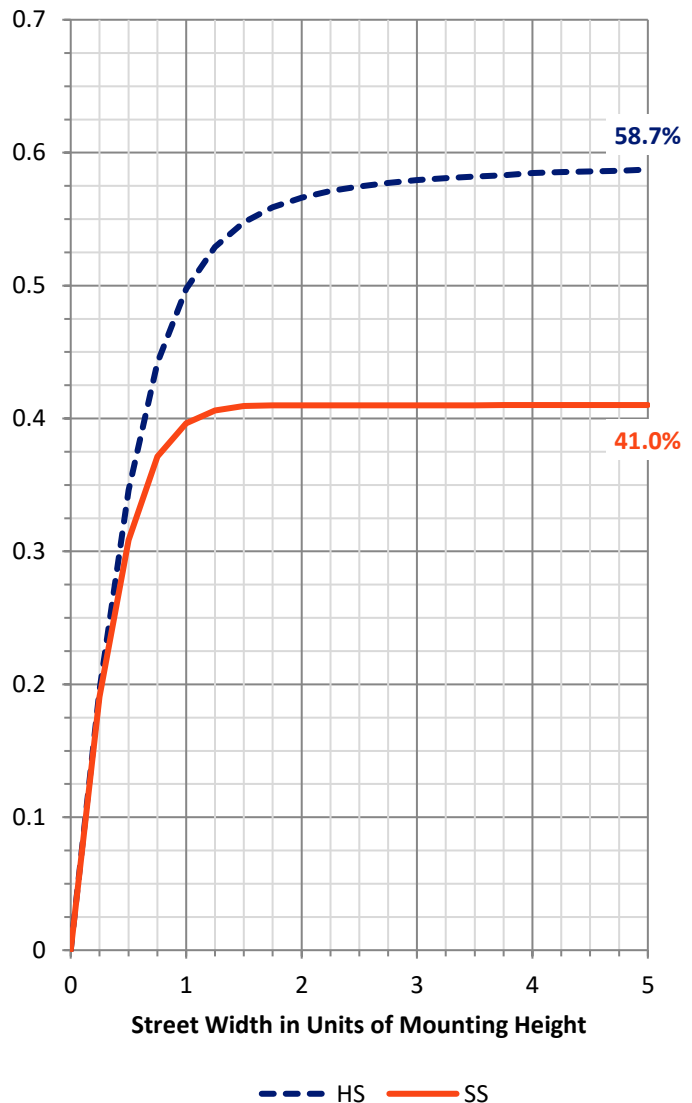
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8884.6	0.0	8884.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6116.8	0.0	6116.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	15001.4	0.0	15001.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.6	7.1
10°-20°	2871.0	19.1
20°-30°	3501.3	23.3
30°-40°	3196.7	21.3
40°-50°	2310.2	15.4
50°-60°	1261.4	8.4
60°-70°	521.5	3.5
70°-80°	211.2	1.4
80°-90°	57.5	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°	15001.4	100.0
0°-180°	15001.4	100.0

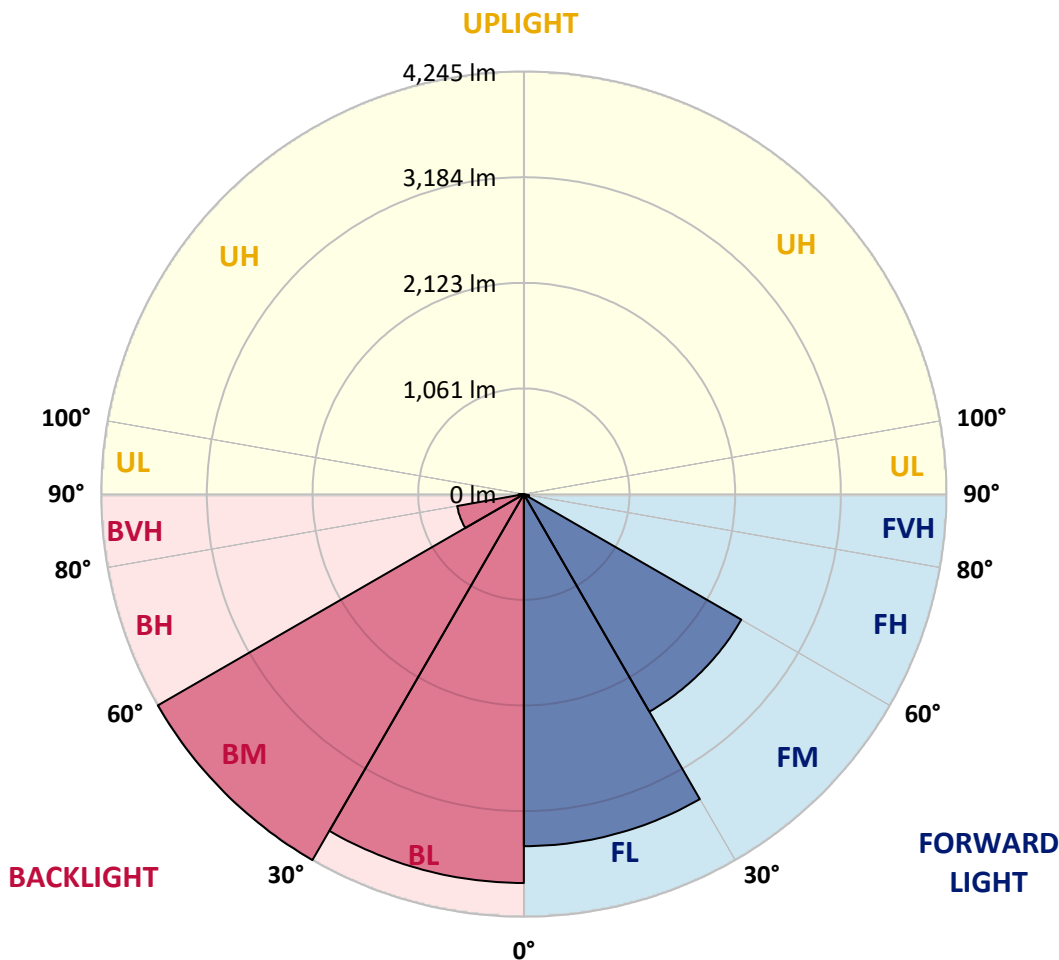


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3536.4	23.6			
FM (30°-60°)	2522.9	16.8			
FH (60°-80°)	52.9	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3906.6	26.0	B4/5000		
BM (30°-60°)	4245.3	28.3	B3/5000		
BH (60°-80°)	679.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	52.9	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°	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0
2.5°	11394.9	11409.6	11329.4	11337.8	11352.6	11460.3	11432.9	11407.5	11371.6	11432.9
5°	11380.1	11388.5	11304.0	11274.4	11287.1	11384.3	11295.6	11295.6	11287.1	11276.6
7.5°	11266.0	11270.2	11204.7	11151.9	11185.7	11230.1	11164.6	11196.3	11149.8	11185.7
10°	11094.9	11067.4	10989.3	10974.5	11012.5	11054.7	11010.4	11040.0	10997.7	11025.2
12.5°	10843.5	10801.2	10737.9	10718.9	10784.3	10841.4	10805.5	10788.6	10733.6	10801.2
15°	9873.9	9842.2	9985.8	10237.2	10463.2	10511.8	10473.8	10490.7	10376.6	10395.6
17.5°	8126.8	8067.7	8221.9	8817.6	9666.8	10114.7	10080.9	9971.0	9802.0	9840.1
20°	7385.3	7368.4	7351.5	7493.1	8086.7	9445.0	9491.5	9212.6	8971.8	8919.0
22.5°	6967.0	6960.7	6943.8	6975.5	7131.8	8004.3	8536.6	8278.9	8118.4	8103.6
25°	6584.7	6574.1	6523.4	6563.6	6563.6	6614.3	7296.6	7452.9	7311.4	7294.5
27.5°	6196.0	6177.0	6168.5	6187.5	6090.4	5748.1	5921.4	6684.0	6610.0	6614.3
30°	5775.6	5769.3	5746.0	5786.2	5486.2	5061.6	4951.7	5986.8	6001.6	5997.4
32.5°	5150.3	5177.8	5283.4	5327.7	4833.4	4482.7	4298.9	5179.9	5482.0	5475.6
35°	3741.2	3741.2	4085.6	4725.7	4235.6	3971.5	3872.2	4391.9	4968.6	4989.7
37.5°	3075.8	3086.4	3154.0	3445.5	3654.6	3561.7	3532.1	3696.9	4309.5	4343.3
40°	2767.4	2767.4	2767.4	2647.0	2640.6	3208.9	3192.0	3139.2	3722.2	3796.2
42.5°	2486.4	2492.8	2497.0	2192.8	2023.8	2773.7	2735.7	2655.4	3196.2	3282.8
45°	2197.0	2207.6	2220.2	1833.7	1759.7	1996.3	2315.3	2226.6	2676.5	2788.5
47.5°	1341.4	1358.3	1645.6	1554.8	1563.3	1540.0	1888.6	1873.8	2194.9	2353.3
50°	906.3	912.6	940.1	986.5	1341.4	1210.5	1337.2	1550.6	1666.8	1907.6
52.5°	760.5	771.1	703.5	640.1	880.9	946.4	933.7	1151.3	1197.8	1495.7
55°	534.5	568.3	536.6	530.2	500.7	735.2	707.7	885.1	914.7	1136.5
57.5°	54.9	63.4	109.9	395.0	327.4	416.2	504.9	648.5	678.1	838.7
60°	4.2	4.2	10.6	54.9	238.7	249.3	348.6	399.3	456.3	585.2
62.5°	0.0	2.1	4.2	8.5	38.0	133.1	175.3	209.1	274.6	378.1
65°	0.0	0.0	2.1	6.3	8.5	50.7	67.6	109.9	150.0	234.5
67.5°	0.0	0.0	2.1	4.2	6.3	12.7	23.2	40.1	80.3	133.1
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.4	35.9	71.8
72.5°	0.0	0.0	2.1	2.1	4.2	10.6	12.7	16.9	25.4	35.9
75°	0.0	0.0	2.1	2.1	6.3	12.7	10.6	12.7	16.9	23.2
77.5°	0.0	0.0	2.1	4.2	6.3	12.7	10.6	12.7	12.7	14.8
80°	0.0	0.0	2.1	4.2	8.5	14.8	12.7	12.7	10.6	10.6
82.5°	0.0	0.0	2.1	6.3	8.5	19.0	19.0	16.9	8.5	6.3
85°	0.0	0.0	4.2	8.5	12.7	21.1	21.1	16.9	6.3	4.2
87.5°	0.0	0.0	4.2	6.3	10.6	14.8	21.1	16.9	6.3	2.1
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°
11416.0	0°	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0	11416.0
11380.1	2.5°	11437.1	11424.4	11466.7	11483.6	11506.8	11418.1	11363.2	11365.3	11263.9
11251.2	5°	11318.8	11320.9	11375.8	11371.6	11394.9	11346.3	11325.1	11289.2	11200.5
11088.5	7.5°	11168.8	11149.8	11202.6	11242.8	11183.6	11217.4	11168.8	11185.7	11132.9
10944.9	10°	11052.6	11008.3	11056.9	11084.3	11086.4	11052.6	11006.2	10961.8	10942.8
10721.0	12.5°	10794.9	10737.9	10820.3	10858.3	10851.9	10786.5	10733.6	10744.2	10682.9
10328.0	15°	10440.0	10442.1	10501.3	10537.2	10503.4	10488.6	10492.8	10467.5	10414.7
9785.1	17.5°	9897.1	9928.8	10085.1	10171.7	10190.7	10161.2	10146.4	10116.8	10064.0
8919.0	20°	8992.9	9183.1	9461.9	9730.2	9783.0	9774.6	9721.8	9709.1	9679.5
8061.3	22.5°	8198.6	8340.2	8663.4	9081.7	9297.1	9318.3	9254.9	9235.9	9204.2
7294.5	25°	7376.9	7529.0	7820.5	8274.7	8720.4	8811.3	8800.7	8743.7	8709.9
6614.3	27.5°	6684.0	6836.1	7100.1	7510.0	7987.4	8278.9	8306.4	8215.5	8213.4
6008.0	30°	6058.7	6267.8	6468.5	6802.3	7264.9	7702.2	7748.7	7685.3	7691.6
5452.4	32.5°	5568.6	5741.8	5912.9	6136.8	6521.3	7030.4	7212.1	7152.9	7129.7
4989.7	35°	5067.9	5186.2	5361.5	5566.5	5828.4	6333.3	6648.1	6603.7	6580.5
4364.4	37.5°	4497.5	4700.3	4827.1	5057.3	5262.3	5663.6	6107.3	6100.9	6052.3
3832.1	40°	3912.4	4125.7	4318.0	4550.3	4708.8	5027.8	5520.0	5517.9	5524.2
3280.7	42.5°	3382.1	3578.6	3811.0	4064.5	4216.6	4448.9	4977.1	5006.6	5042.6
2826.5	45°	2902.6	3080.0	3295.5	3603.9	3787.7	3920.8	4389.8	4525.0	4522.9
2420.9	47.5°	2471.6	2638.5	2820.2	3120.2	3354.7	3475.1	3863.8	4056.0	4043.3
1985.8	50°	2074.5	2222.4	2412.5	2630.1	2944.8	3050.5	3339.9	3593.4	3574.4
1582.3	52.5°	1668.9	1873.8	2034.3	2232.9	2564.6	2668.1	2892.0	3139.2	3124.4
1187.2	55°	1301.3	1499.9	1694.2	1865.3	2144.2	2298.4	2459.0	2712.5	2708.2
929.5	57.5°	984.4	1202.0	1385.8	1548.5	1770.3	1960.4	2089.3	2319.5	2349.1
635.9	60°	728.8	895.7	1094.3	1276.0	1451.3	1647.8	1734.4	1960.4	1973.1
435.2	62.5°	496.4	680.2	874.6	1039.4	1170.3	1373.1	1451.3	1637.2	1660.4
278.9	65°	344.3	462.6	684.5	802.8	963.3	1136.5	1214.7	1362.6	1409.0
160.6	67.5°	228.2	329.6	534.5	642.2	800.6	918.9	1018.2	1138.6	1189.3
101.4	70°	124.6	242.9	382.4	507.0	644.3	758.4	855.6	952.7	997.1
46.5	72.5°	84.5	162.7	266.2	401.4	519.7	631.6	718.3	790.1	792.2
27.5	75°	42.3	109.9	202.8	310.5	405.6	515.5	593.6	635.9	585.2
16.9	77.5°	25.4	80.3	164.8	249.3	329.6	416.2	460.5	483.8	401.4
12.7	80°	14.8	57.0	128.9	198.6	228.2	306.3	348.6	354.9	268.3
8.5	82.5°	10.6	42.3	101.4	145.8	139.4	215.5	262.0	253.5	171.1
6.3	85°	6.3	29.6	63.4	90.8	84.5	141.5	152.1	156.3	99.3
4.2	87.5°	4.2	16.9	33.8	48.6	40.1	61.3	61.3	73.9	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11416.0
<i>11132.9</i>
11179.4
11044.2
10858.3
10630.1
10361.8
10040.7
9611.9
9195.7
8673.9
8209.2
7659.9
7131.8
6548.8
6092.5
5524.2
5023.5
4527.1
4047.6
3591.3
3156.1
2718.8
2336.4
1992.1
1664.7
1398.5
1183.0
980.2
773.2
547.1
386.6
251.4
158.4
90.8
42.3
0.0

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