

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: P638134

Luminaire Tested: **IFLD-S-SA3A-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10437.8 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

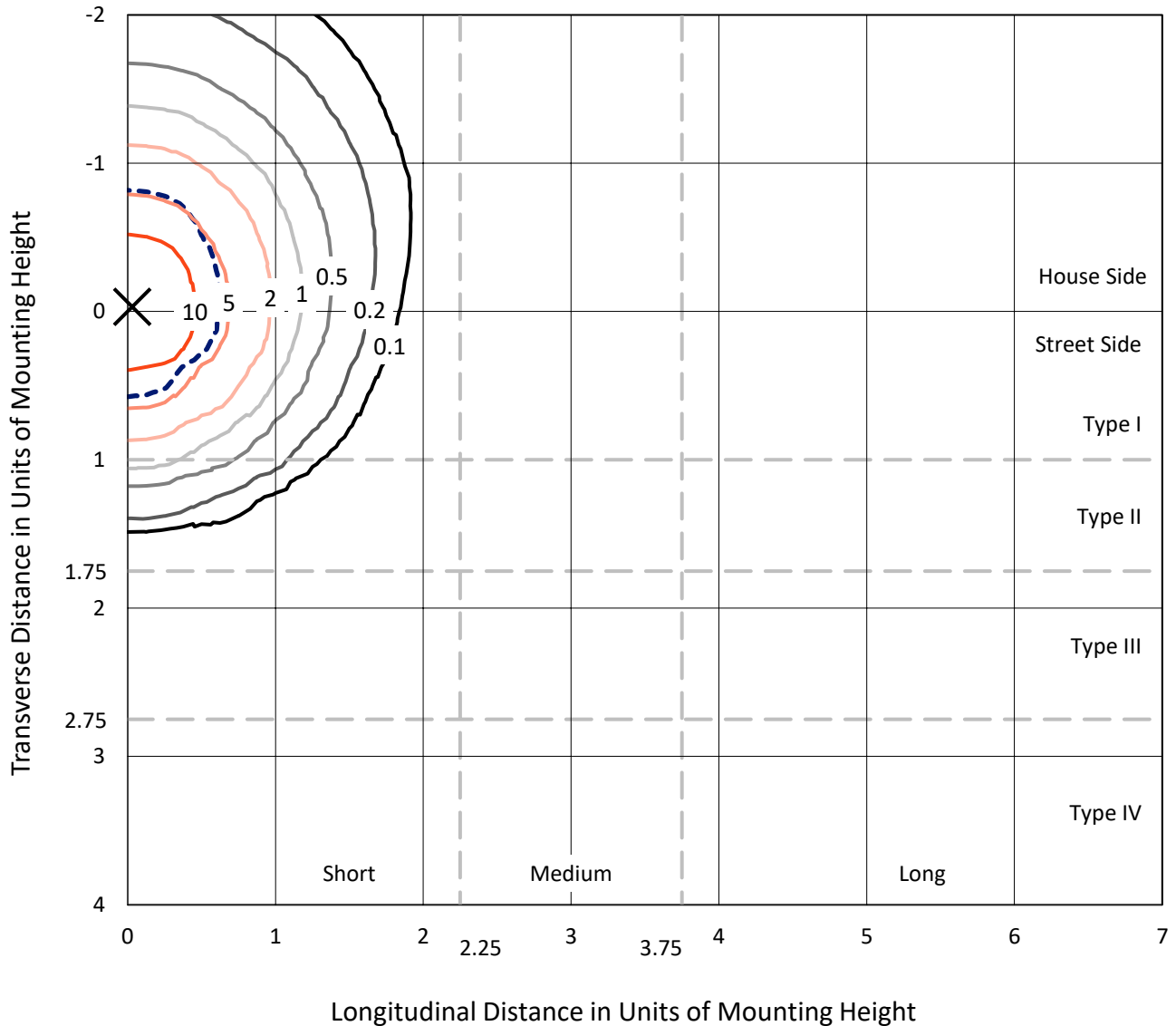
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

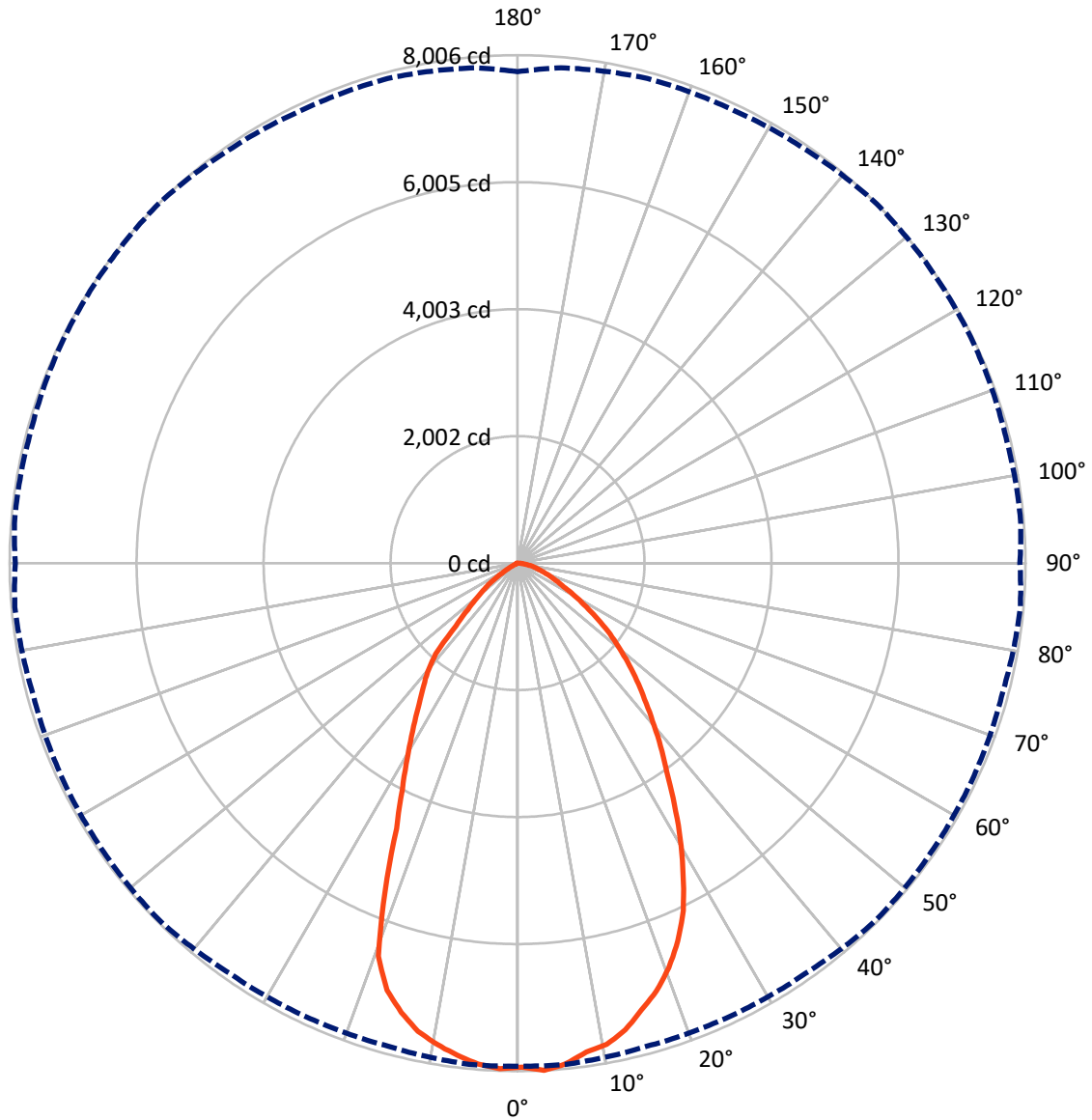
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.9 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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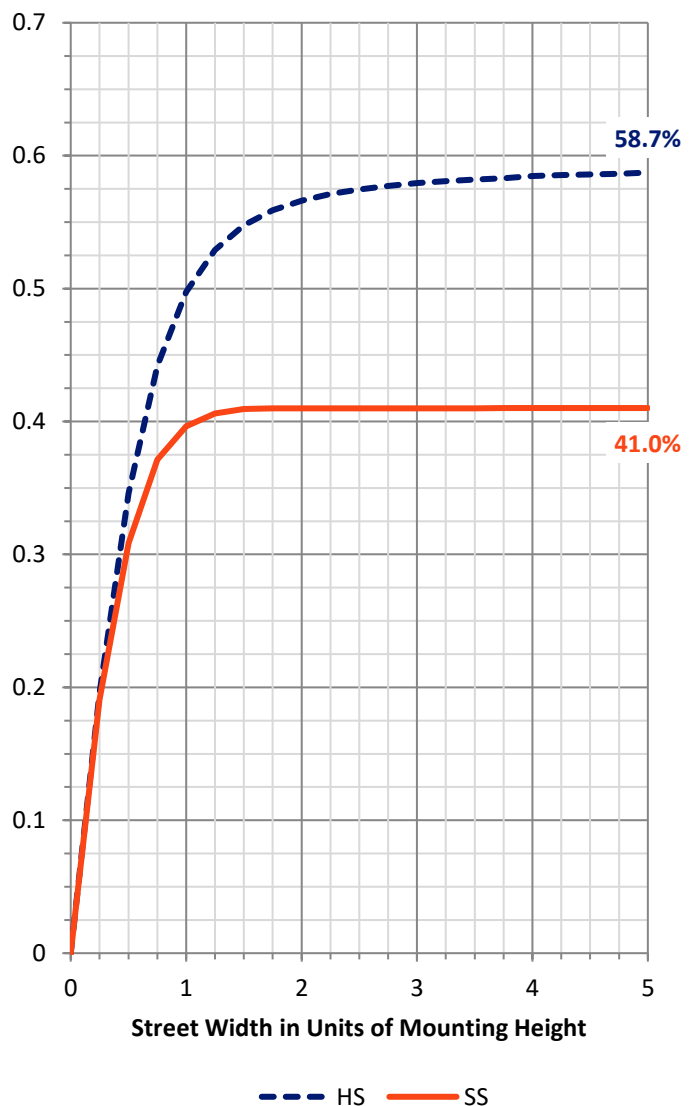
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6181.8	0.0	6181.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4256.0	0.0	4256.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10437.8	0.0	10437.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	744.9	7.1
10°-20°	1997.6	19.1
20°-30°	2436.2	23.3
30°-40°	2224.2	21.3
40°-50°	1607.4	15.4
50°-60°	877.7	8.4
60°-70°	362.9	3.5
70°-80°	147.0	1.4
80°-90°	40.0	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°	10437.8	100.0
0°-180°	10437.8	100.0



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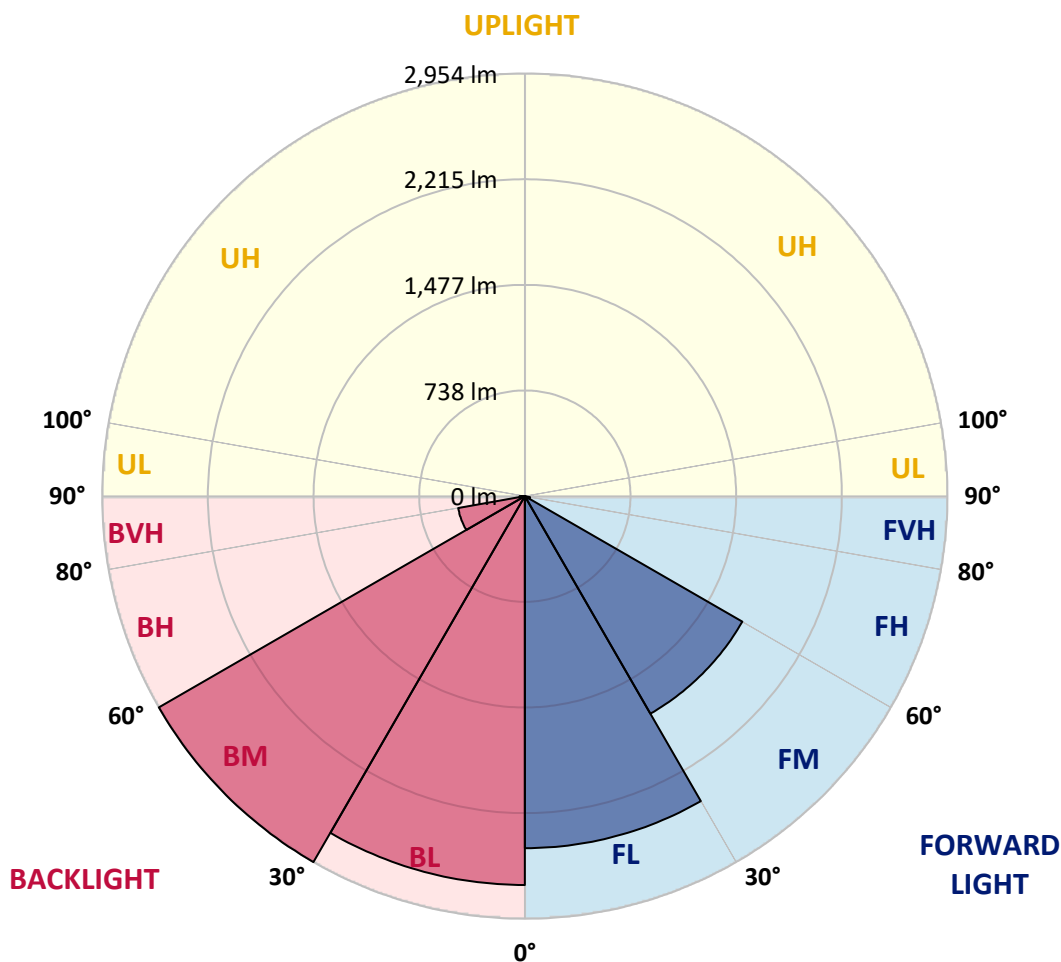
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.6	23.6			
FM (30°-60°)	1755.4	16.8			
FH (60°-80°)	36.8	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2718.2	26.0	B4/5000		
BM (30°-60°)	2953.8	28.3	B3/5000		
BH (60°-80°)	473.1	4.5	B1/500		G1/500
BVH (80°-90°)	36.8	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2
2.5°	7928.5	7938.8	7882.9	7888.8	7899.1	7974.0	7954.9	7937.3	7912.3	7954.9
5°	7918.2	7924.1	7865.3	7844.7	7853.5	7921.1	7859.4	7859.4	7853.5	7846.2
7.5°	7838.8	7841.8	7796.2	7759.4	7783.0	7813.8	7768.3	7790.3	7758.0	7783.0
10°	7719.8	7700.6	7646.3	7636.0	7662.4	7691.8	7661.0	7681.5	7652.1	7671.3
12.5°	7544.8	7515.4	7471.3	7458.1	7503.7	7543.4	7518.4	7506.6	7468.4	7515.4
15°	6870.2	6848.1	6948.1	7123.0	7280.3	7314.1	7287.6	7299.4	7220.0	7233.2
17.5°	5654.6	5613.4	5720.7	6135.2	6726.1	7037.7	7014.2	6937.8	6820.2	6846.7
20°	5138.7	5126.9	5115.1	5213.6	5626.7	6571.8	6604.1	6410.1	6242.5	6205.8
22.5°	4847.6	4843.2	4831.5	4853.5	4962.3	5569.3	5939.7	5760.4	5648.7	5638.4
25°	4581.6	4574.2	4539.0	4566.9	4566.9	4602.2	5076.9	5185.7	5087.2	5075.5
27.5°	4311.1	4297.9	4292.0	4305.2	4237.6	3999.5	4120.0	4650.7	4599.2	4602.2
30°	4018.6	4014.2	3998.0	4026.0	3817.3	3521.8	3445.4	4165.6	4175.9	4173.0
32.5°	3583.5	3602.7	3676.1	3707.0	3363.1	3119.1	2991.2	3604.1	3814.3	3809.9
35°	2603.1	2603.1	2842.7	3288.1	2947.1	2763.4	2694.3	3055.9	3457.1	3471.8
37.5°	2140.1	2147.5	2194.5	2397.4	2542.9	2478.2	2457.6	2572.3	2998.5	3022.1
40°	1925.5	1925.5	1925.5	1841.7	1837.3	2232.7	2221.0	2184.2	2589.9	2641.4
42.5°	1730.0	1734.4	1737.4	1525.7	1408.1	1929.9	1903.5	1847.6	2223.9	2284.2
45°	1528.7	1536.0	1544.8	1275.8	1224.4	1389.0	1611.0	1549.2	1862.3	1940.2
47.5°	933.4	945.1	1145.0	1081.8	1087.7	1071.5	1314.1	1303.8	1527.2	1637.4
50°	630.6	635.0	654.1	686.4	933.4	842.2	930.4	1078.9	1159.7	1327.3
52.5°	529.2	536.5	489.5	445.4	612.9	658.5	649.7	801.1	833.4	1040.7
55°	371.9	395.4	373.3	368.9	348.4	511.5	492.4	615.9	636.5	790.8
57.5°	38.2	44.1	76.4	274.9	227.8	289.6	351.3	451.3	471.8	583.5
60°	2.9	2.9	7.3	38.2	166.1	173.4	242.5	277.8	317.5	407.2
62.5°	0.0	1.5	2.9	5.9	26.5	92.6	122.0	145.5	191.1	263.1
65°	0.0	0.0	1.5	4.4	5.9	35.3	47.0	76.4	104.4	163.2
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	16.2	27.9	55.9	92.6
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.8	17.6	25.0	50.0
72.5°	0.0	0.0	1.5	1.5	2.9	7.3	8.8	11.8	17.6	25.0
75°	0.0	0.0	1.5	1.5	4.4	8.8	7.3	8.8	11.8	16.2
77.5°	0.0	0.0	1.5	2.9	4.4	8.8	7.3	8.8	8.8	10.3
80°	0.0	0.0	1.5	2.9	5.9	10.3	8.8	8.8	7.3	7.3
82.5°	0.0	0.0	1.5	4.4	5.9	13.2	13.2	11.8	5.9	4.4
85°	0.0	0.0	2.9	5.9	8.8	14.7	14.7	11.8	4.4	2.9
87.5°	0.0	0.0	2.9	4.4	7.3	10.3	14.7	11.8	4.4	1.5
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°
7943.2	0°	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2	7943.2
7918.2	2.5°	7957.9	7949.1	7978.5	7990.2	8006.4	7944.6	7906.4	7907.9	7837.3
7828.5	5°	7875.6	7877.0	7915.2	7912.3	7928.5	7894.7	7880.0	7855.0	7793.2
7715.3	7.5°	7771.2	7758.0	7794.7	7822.6	7781.5	7805.0	7771.2	7783.0	7746.2
7615.4	10°	7690.4	7659.5	7693.3	7712.4	7713.9	7690.4	7658.0	7627.2	7613.9
7459.6	12.5°	7511.0	7471.3	7528.7	7555.1	7550.7	7505.2	7468.4	7475.8	7433.1
7186.2	15°	7264.1	7265.6	7306.7	7331.7	7308.2	7297.9	7300.8	7283.2	7246.5
6808.4	17.5°	6886.3	6908.4	7017.2	7077.4	7090.7	7070.1	7059.8	7039.2	7002.5
6205.8	20°	6257.2	6389.5	6583.5	6770.2	6807.0	6801.1	6764.3	6755.5	6734.9
5609.0	22.5°	5704.6	5803.0	6027.9	6319.0	6468.9	6483.6	6439.5	6426.3	6404.2
5075.5	25°	5132.8	5238.6	5441.5	5757.5	6067.6	6130.8	6123.5	6083.8	6060.3
4602.2	27.5°	4650.7	4756.5	4940.2	5225.4	5557.6	5760.4	5779.5	5716.3	5714.9
4180.3	30°	4215.6	4361.1	4500.7	4733.0	5054.9	5359.1	5391.5	5347.4	5351.8
3793.7	32.5°	3874.6	3995.1	4114.2	4270.0	4537.5	4891.7	5018.1	4977.0	4960.8
3471.8	35°	3526.2	3608.5	3730.5	3873.1	4055.4	4406.7	4625.7	4594.8	4578.6
3036.8	37.5°	3129.4	3270.5	3358.7	3518.9	3661.4	3940.7	4249.4	4245.0	4211.2
2666.3	40°	2722.2	2870.7	3004.4	3166.1	3276.3	3498.3	3840.8	3839.3	3843.7
2282.7	42.5°	2353.3	2490.0	2651.6	2828.0	2933.9	3095.5	3463.0	3483.6	3508.6
1966.7	45°	2019.6	2143.1	2293.0	2507.6	2635.5	2728.1	3054.4	3148.5	3147.0
1684.5	47.5°	1719.7	1835.9	1962.3	2171.0	2334.2	2417.9	2688.4	2822.2	2813.3
1381.7	50°	1443.4	1546.3	1678.6	1830.0	2049.0	2122.5	2323.9	2500.2	2487.0
1100.9	52.5°	1161.2	1303.8	1415.5	1553.7	1784.4	1856.4	2012.3	2184.2	2173.9
826.1	55°	905.4	1043.6	1178.8	1297.9	1491.9	1599.2	1710.9	1887.3	1884.4
646.7	57.5°	685.0	836.4	964.2	1077.4	1231.8	1364.0	1453.7	1613.9	1634.5
442.4	60°	507.1	623.2	761.4	887.8	1009.8	1146.5	1206.8	1364.0	1372.9
302.8	62.5°	345.4	473.3	608.5	723.2	814.3	955.4	1009.8	1139.1	1155.3
194.0	65°	239.6	321.9	476.2	558.6	670.3	790.8	845.2	948.1	980.4
111.7	67.5°	158.7	229.3	371.9	446.8	557.1	639.4	708.5	792.3	827.5
70.6	70°	86.7	169.0	266.0	352.8	448.3	527.7	595.3	662.9	693.8
32.3	72.5°	58.8	113.2	185.2	279.3	361.6	439.5	499.8	549.7	551.2
19.1	75°	29.4	76.4	141.1	216.1	282.2	358.6	413.0	442.4	407.2
11.8	77.5°	17.6	55.9	114.6	173.4	229.3	289.6	320.4	336.6	279.3
8.8	80°	10.3	39.7	89.7	138.2	158.7	213.1	242.5	246.9	186.7
5.9	82.5°	7.3	29.4	70.6	101.4	97.0	149.9	182.3	176.4	119.1
4.4	85°	4.4	20.6	44.1	63.2	58.8	98.5	105.8	108.8	69.1
2.9	87.5°	2.9	11.8	23.5	33.8	27.9	42.6	42.6	51.4	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7943.2
7746.2
7778.6
7684.5
7555.1
7396.4
7209.7
6986.3
6687.9
6398.3
6035.3
5711.9
5329.7
4962.3
4556.6
4239.1
3843.7
3495.4
3149.9
2816.3
2498.8
2196.0
1891.7
1625.7
1386.1
1158.3
973.1
823.1
682.0
538.0
380.7
269.0
174.9
110.2
63.2
29.4
0.0

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