

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: P637781

Luminaire Tested: **IFLD-S-SA2A-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5734.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

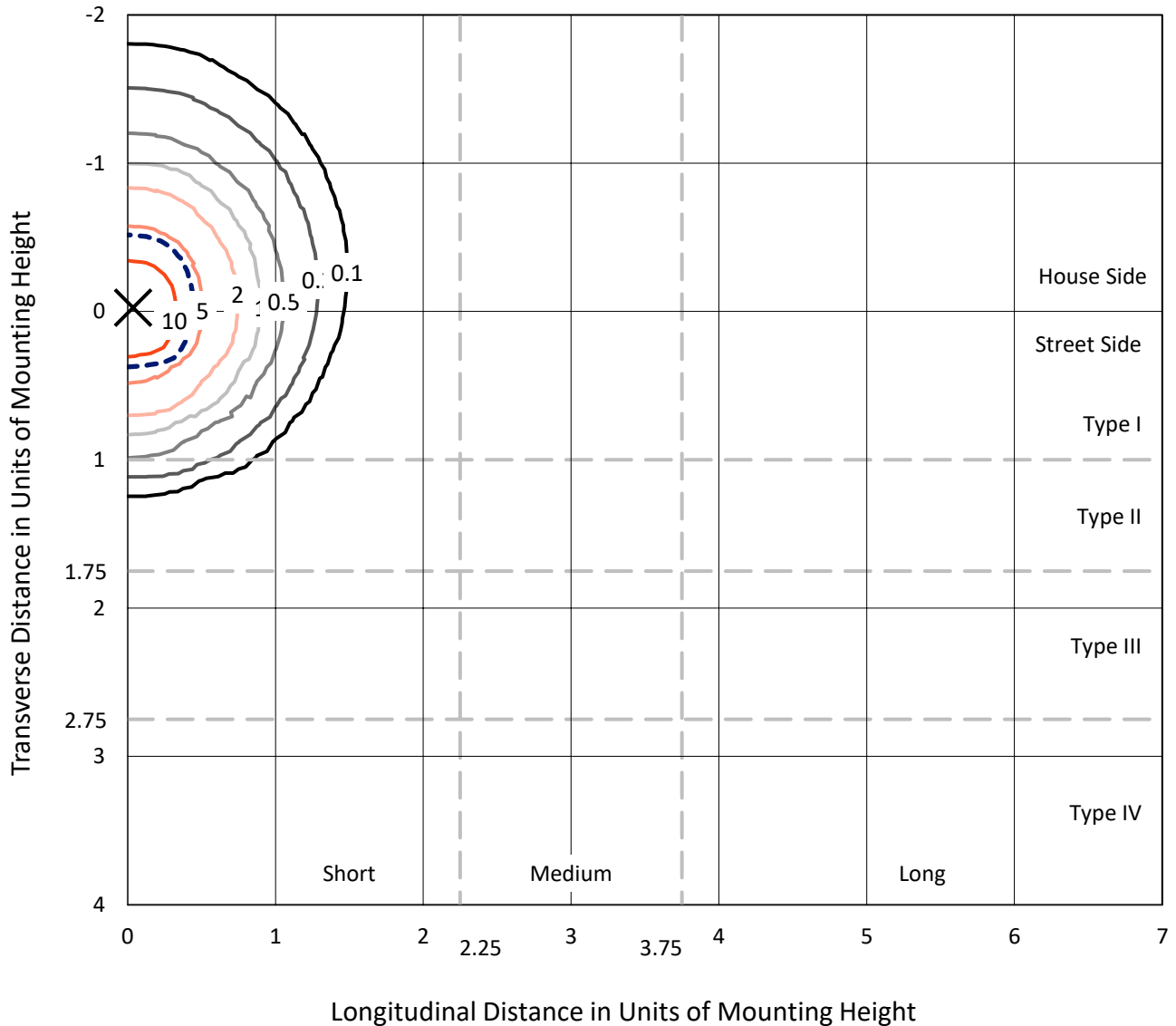
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

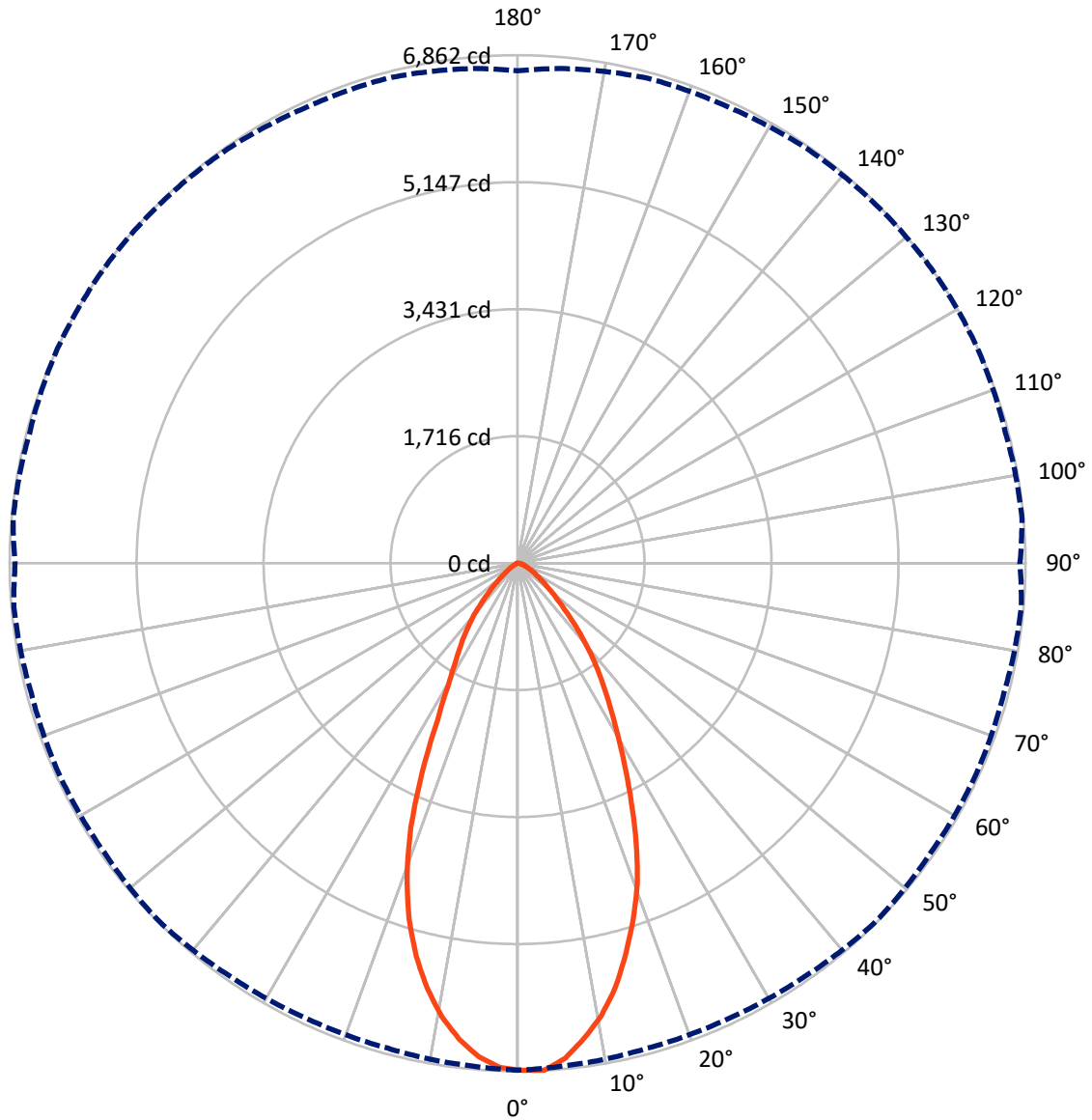
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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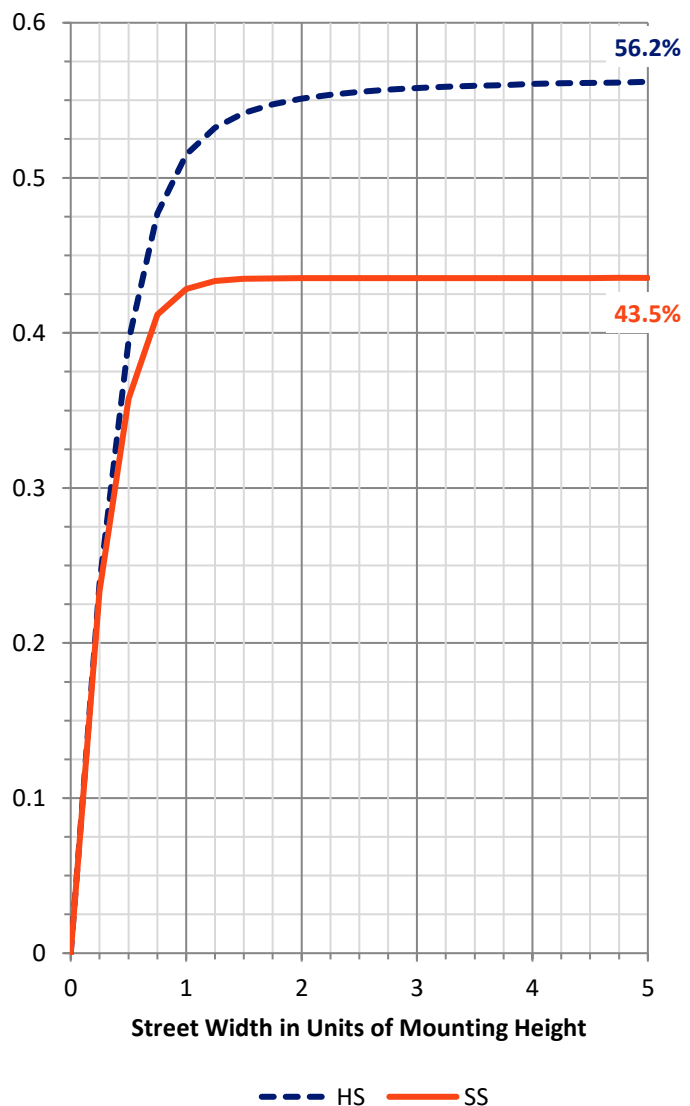
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.8	0.0	3253.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	2480.4	0.0	2480.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	5734.2	0.0	5734.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.1	10.8
10°-20°	1482.9	25.9
20°-30°	1510.4	26.3
30°-40°	1126.3	19.6
40°-50°	588.4	10.3
50°-60°	247.5	4.3
60°-70°	101.1	1.8
70°-80°	42.5	0.7
80°-90°	13.1	0.2
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°	5734.2	100.0
0°-180°	5734.2	100.0



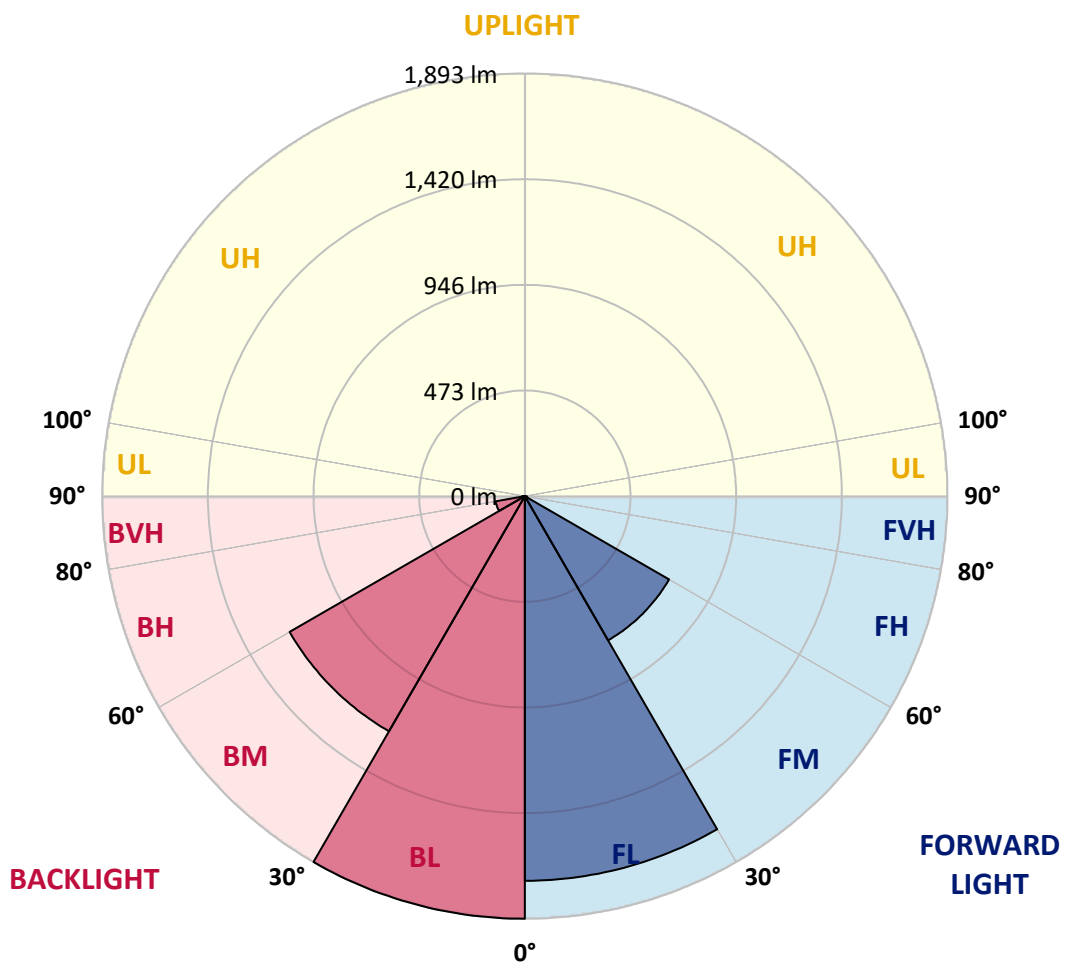
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.6	30.0			
FM (30°-60°)	745.8	13.0			
FH (60°-80°)	10.8	0.2			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	1892.8	33.0	B3/2500		
BM (30°-60°)	1216.4	21.2	B2/2500		
BH (60°-80°)	132.8	2.3	B1/500		G1/500
BVH (80°-90°)	11.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0
2.5°	6851.7	6823.8	6784.0	6780.3	6800.9	6845.9	6817.1	6818.6	6800.9	6831.1
5°	6744.2	6717.7	6690.4	6654.3	6684.5	6703.7	6689.0	6672.8	6649.9	6679.4
7.5°	6540.9	6526.2	6485.7	6469.5	6487.9	6509.2	6477.6	6473.1	6441.5	6479.8
10°	6230.1	6224.2	6184.4	6174.8	6191.0	6223.4	6209.4	6206.5	6186.6	6182.9
12.5°	5907.4	5884.6	5835.3	5832.3	5856.6	5905.2	5867.7	5831.6	5842.6	5852.2
15°	5076.6	5052.3	5174.5	5366.8	5467.7	5464.0	5475.1	5431.6	5418.3	5422.8
17.5°	4035.8	3994.5	4038.7	4336.3	4815.8	5094.2	5017.6	4924.1	4874.0	4840.9
20°	3483.3	3485.5	3477.4	3554.0	3853.1	4488.0	4469.6	4289.2	4223.6	4196.3
22.5°	3147.4	3134.9	3117.2	3141.6	3221.8	3594.6	3844.3	3678.5	3655.7	3625.5
25°	2818.2	2818.2	2796.8	2821.1	2844.0	2849.1	3099.6	3167.3	3123.1	3123.1
27.5°	2533.1	2518.4	2508.8	2519.9	2489.7	2344.6	2376.2	2723.2	2693.0	2674.6
30°	2250.3	2245.9	2229.7	2244.4	2132.4	1968.9	1902.6	2298.2	2329.8	2323.2
32.5°	1857.7	1875.4	1947.5	1970.4	1778.9	1647.0	1583.7	1907.8	2034.5	2029.3
35°	1262.5	1277.2	1359.7	1632.3	1474.7	1380.4	1362.0	1517.4	1725.8	1745.7
37.5°	1005.4	1003.2	1026.8	1075.4	1185.2	1162.3	1157.2	1197.7	1407.6	1416.5
40°	828.7	825.7	825.0	785.2	757.9	966.4	952.4	928.1	1110.0	1127.7
42.5°	668.1	671.0	673.2	586.3	546.5	745.4	737.3	712.3	870.6	891.3
45°	524.5	523.7	528.1	436.8	425.7	476.6	551.0	531.1	657.0	679.1
47.5°	271.8	281.4	341.0	338.1	343.3	338.1	416.9	411.8	494.3	529.6
50°	182.7	185.6	190.8	191.5	270.3	249.0	282.9	320.4	346.2	400.7
52.5°	141.4	143.6	130.4	122.3	165.7	184.1	185.6	221.7	241.6	296.8
55°	78.8	88.4	95.0	95.8	91.3	136.3	135.5	164.3	179.7	216.6
57.5°	10.3	12.5	19.2	61.9	61.1	75.9	95.0	119.3	128.2	158.4
60°	0.7	1.5	2.2	9.6	40.5	44.2	64.8	74.4	89.1	111.2
62.5°	0.0	0.0	0.7	2.2	8.1	25.8	33.9	39.0	52.3	72.9
65°	0.0	0.0	0.7	1.5	2.9	9.6	13.3	21.4	30.9	44.9
67.5°	0.0	0.0	0.7	1.5	2.2	3.7	5.9	9.6	16.2	27.3
70°	0.0	0.0	0.7	1.5	2.2	2.9	4.4	5.9	8.8	14.7
72.5°	0.0	0.0	0.7	0.7	1.5	3.7	3.7	4.4	5.9	8.1
75°	0.0	0.0	0.7	1.5	2.2	3.7	3.7	3.7	4.4	5.2
77.5°	0.0	0.0	0.7	1.5	2.2	3.7	2.9	3.7	3.7	3.7
80°	0.0	0.0	0.7	1.5	2.2	3.7	4.4	3.7	2.9	2.9
82.5°	0.0	0.0	0.7	2.2	2.2	5.2	5.2	5.2	2.2	2.2
85°	0.0	0.0	1.5	2.2	3.7	5.9	5.9	4.4	2.2	1.5
87.5°	0.0	0.0	0.7	1.5	1.5	2.9	4.4	3.7	1.5	0.7
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°
6851.0	0°	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0	6851.0
6786.9	2.5°	6841.4	6823.0	6857.6	6862.1	6847.3	6828.9	6786.2	6782.5	6708.1
6636.7	5°	6711.8	6681.6	6703.7	6718.4	6713.3	6693.4	6675.7	6659.5	6592.5
6392.9	7.5°	6470.2	6459.1	6469.5	6480.5	6501.9	6480.5	6473.1	6456.2	6389.9
6152.7	10°	6202.1	6181.5	6220.5	6215.3	6209.4	6203.5	6172.6	6175.6	6097.5
5825.7	12.5°	5872.8	5838.2	5875.8	5880.2	5875.8	5855.1	5820.5	5835.3	5763.8
5383.7	15°	5430.1	5426.4	5453.7	5471.4	5483.9	5461.8	5450.0	5457.4	5414.7
4815.1	17.5°	4886.5	4934.4	5023.5	5053.7	5054.5	5077.3	5070.7	5061.8	5030.2
4185.3	20°	4247.2	4339.2	4476.2	4616.9	4657.4	4638.3	4629.5	4645.7	4598.5
3593.8	22.5°	3657.2	3736.0	3895.1	4100.6	4219.2	4231.0	4228.8	4214.8	4196.3
3120.2	25°	3156.3	3226.3	3378.7	3566.6	3794.2	3828.1	3829.5	3825.1	3808.9
2690.8	27.5°	2733.5	2818.2	2902.2	3070.1	3312.4	3452.4	3434.7	3429.6	3423.7
2328.4	30°	2350.5	2457.3	2536.1	2640.7	2858.0	3047.3	3065.7	3056.8	3042.8
2028.6	32.5°	2047.0	2110.3	2210.5	2281.2	2437.4	2651.7	2722.4	2715.8	2703.3
1758.2	35°	1783.3	1808.3	1887.1	1966.0	2069.8	2277.5	2382.1	2367.4	2365.2
1432.7	37.5°	1468.8	1552.7	1596.2	1675.7	1748.7	1910.0	2054.3	2047.7	2048.5
1152.0	40°	1185.9	1234.5	1320.7	1387.7	1454.8	1572.6	1733.2	1737.6	1736.1
892.0	42.5°	910.4	957.6	1048.2	1121.1	1180.8	1253.7	1406.9	1412.0	1418.7
694.6	45°	710.8	741.0	807.3	883.2	946.5	990.7	1107.1	1140.2	1141.0
538.4	47.5°	551.7	586.3	633.5	706.4	768.3	799.9	884.6	929.6	927.4
413.2	50°	433.1	464.8	503.1	560.5	627.6	652.6	715.2	759.4	757.2
311.6	52.5°	331.5	372.0	405.9	450.1	515.6	537.0	581.9	632.7	625.4
228.3	55°	251.2	292.4	324.1	360.9	420.6	447.8	478.8	519.3	520.8
176.8	57.5°	189.3	232.0	260.8	298.3	343.3	373.5	397.0	440.5	439.7
120.8	60°	135.5	172.4	207.0	246.0	280.6	315.3	331.5	372.7	374.2
85.4	62.5°	98.0	132.6	165.7	199.6	230.6	264.4	279.2	311.6	316.0
56.0	65°	68.5	92.8	131.1	156.9	191.5	216.6	235.7	263.7	268.9
33.1	67.5°	44.2	67.0	103.9	126.7	158.4	179.7	199.6	221.7	228.3
21.4	70°	26.5	50.8	77.3	101.6	130.4	149.5	168.7	187.8	191.5
10.3	72.5°	16.9	35.4	56.0	82.5	104.6	125.2	142.2	156.2	145.1
6.6	75°	9.6	24.3	44.2	64.8	84.7	104.6	118.6	126.0	100.9
4.4	77.5°	5.9	17.7	36.1	52.3	65.6	84.0	92.8	97.2	72.2
2.9	80°	3.7	13.3	30.2	42.7	42.7	61.9	72.2	75.9	52.3
2.2	82.5°	2.9	9.6	23.6	32.4	28.7	46.4	56.7	57.5	36.8
1.5	85°	2.2	7.4	14.7	21.4	19.9	32.4	33.1	36.8	24.3
1.5	87.5°	1.5	4.4	8.8	12.5	11.0	15.5	17.7	19.9	13.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6851.0
6649.9
6538.7
6375.9
6071.0
5743.2
5363.1
4983.0
4564.6
4161.0
3754.4
3389.0
3025.2
2670.1
2340.9
2024.9
1710.4
1396.6
1121.8
919.3
757.2
626.1
520.8
438.3
370.5
314.5
267.4
227.6
188.6
134.8
95.8
67.8
48.6
33.9
22.1
11.8
0.0

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