

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: P636638

Luminaire Tested: **IFLD-M-SA4C-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15031.4 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

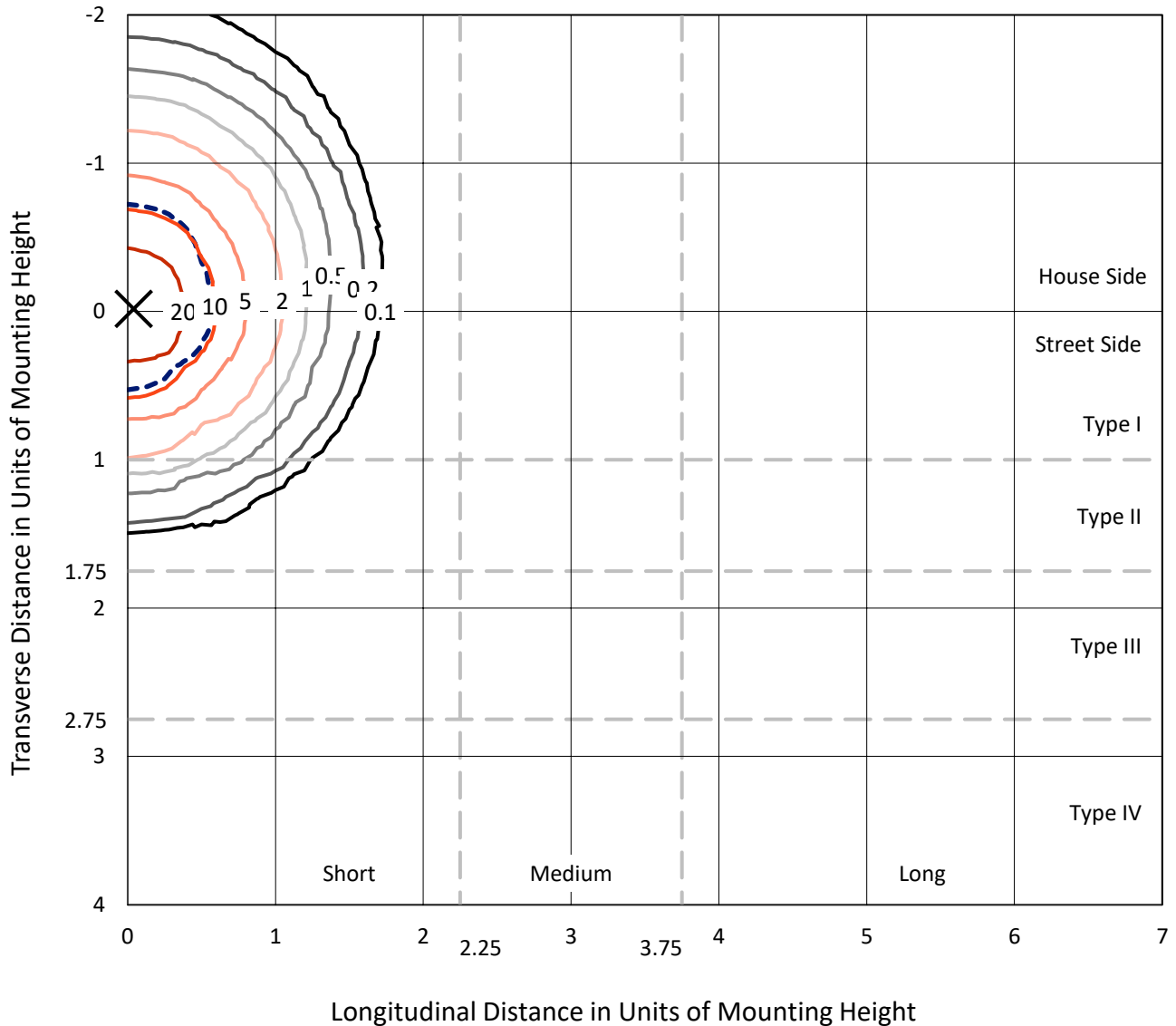
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

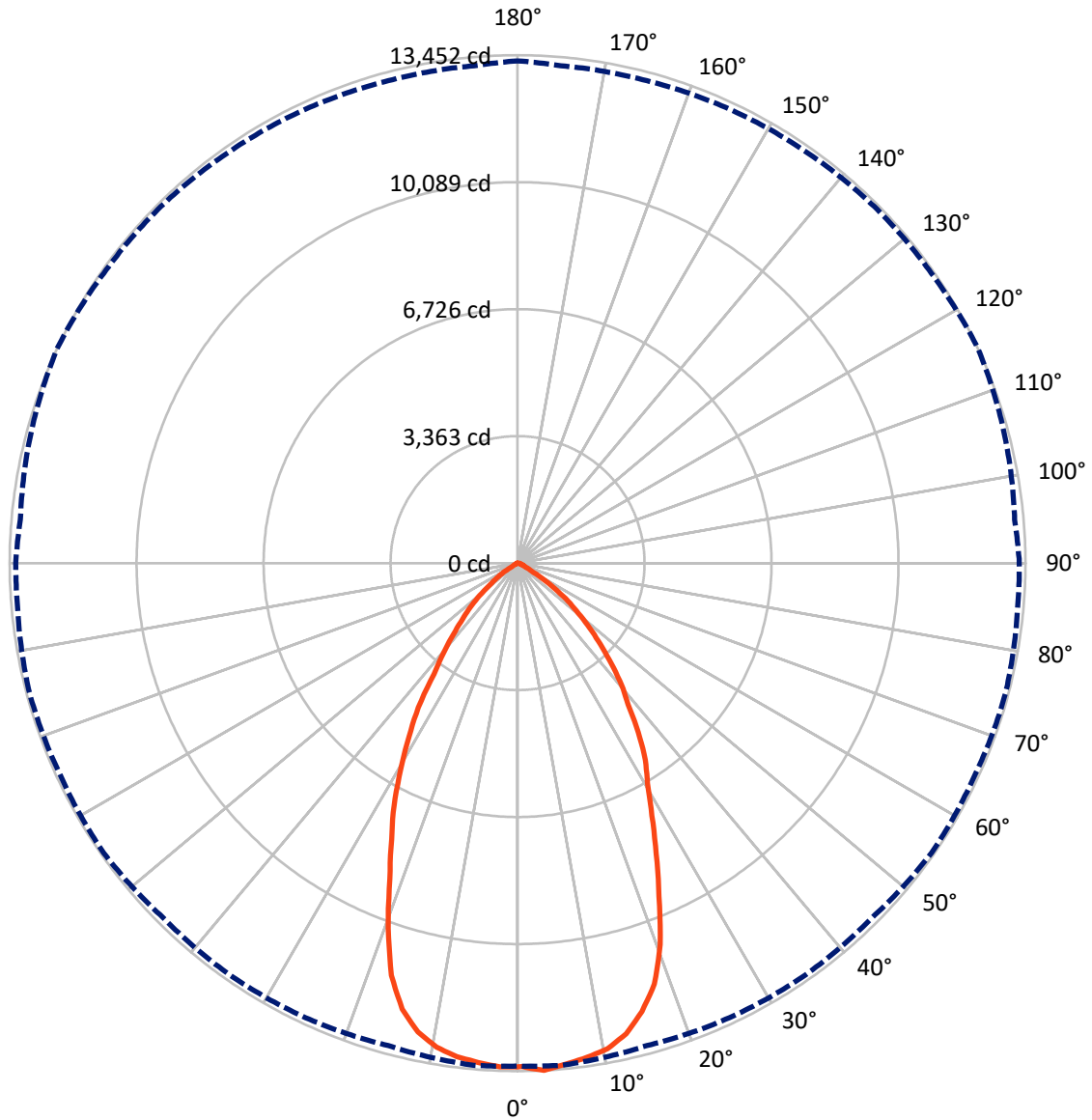
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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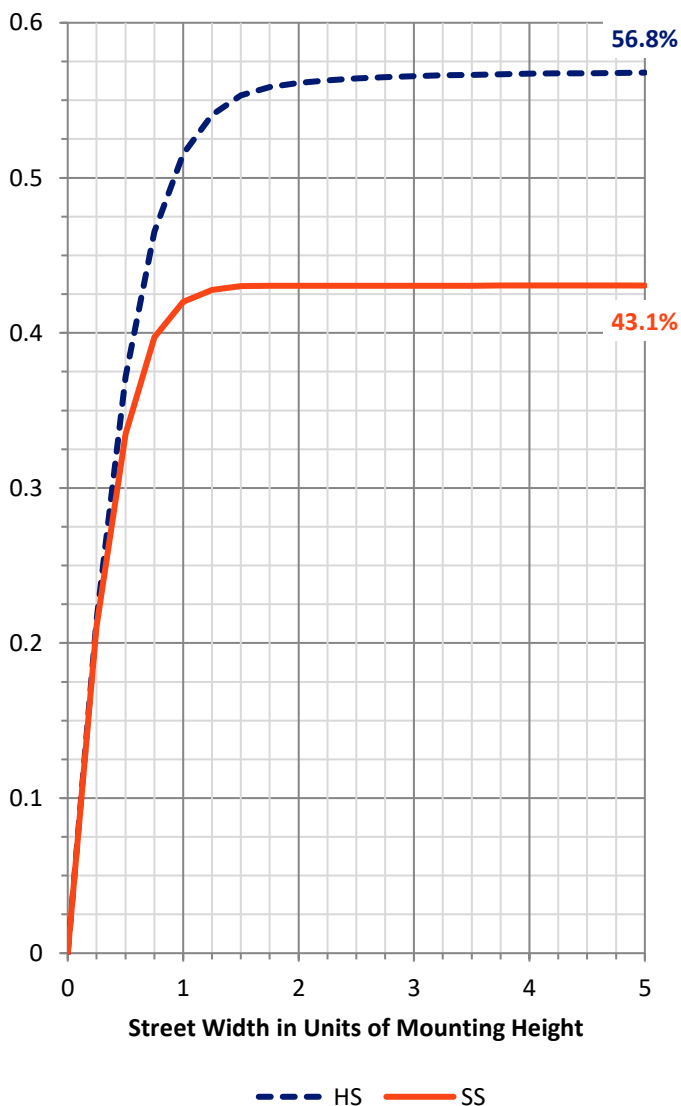
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8602.3	0.0	8602.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6429.1	0.0	6429.1
	% Fixture	42.8	0.0	42.8
Total	Lumens	15031.4	0.0	15031.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1256.1	8.4
10°-20°	3330.6	22.2
20°-30°	3809.6	25.3
30°-40°	3264.7	21.7
40°-50°	2158.7	14.4
50°-60°	942.0	6.3
60°-70°	185.1	1.2
70°-80°	66.8	0.4
80°-90°	17.8	0.1
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°	15031.4	100.0
0°-180°	15031.4	100.0



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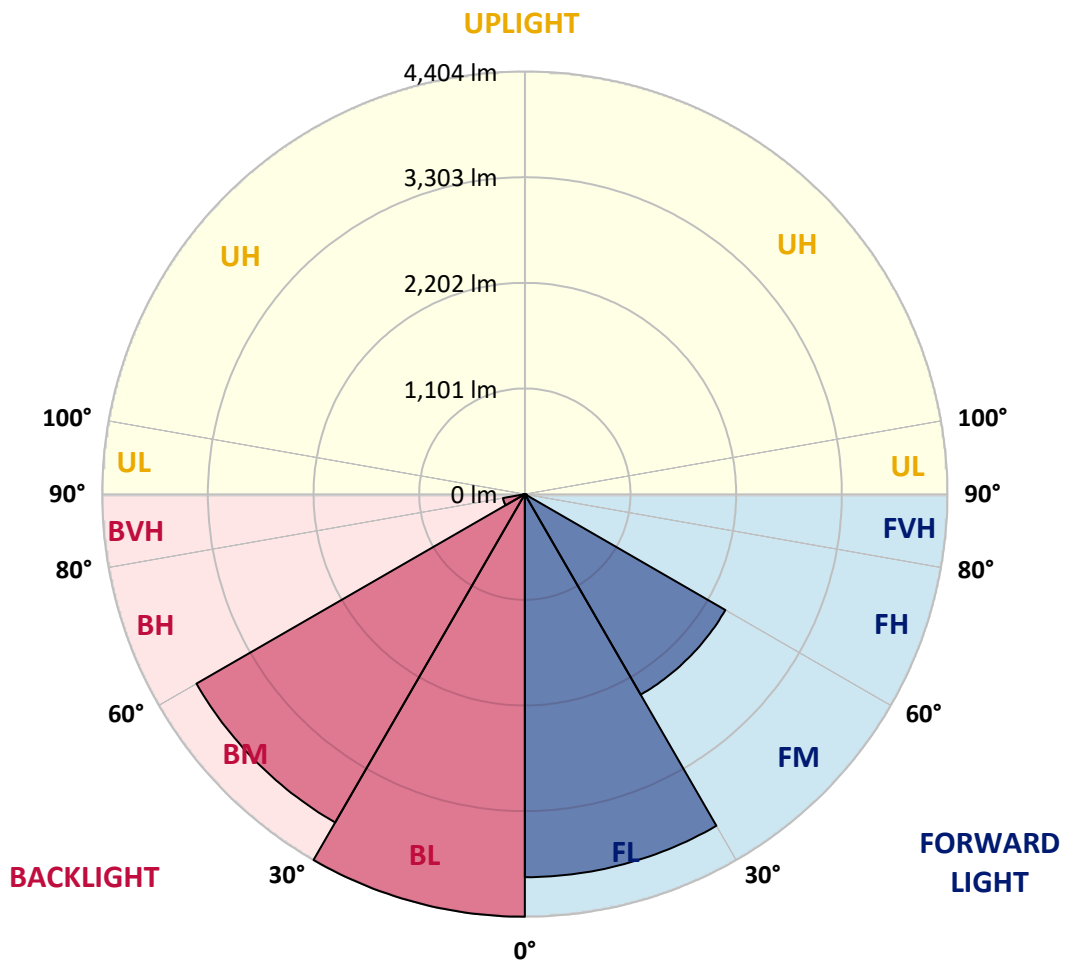
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3992.0	26.6			
FM (30°-60°)	2413.7	16.1			
FH (60°-80°)	20.5	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	4404.3	29.3	B4/5000		
BM (30°-60°)	3951.7	26.3	B3/5000		
BH (60°-80°)	231.4	1.5	B1/500		G1/500
BVH (80°-90°)	14.8	0.1			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°	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6
2.5°	13317.4	13349.4	13228.0	13282.3	13304.7	13275.9	13381.3	13349.4	13374.9	13295.1
5°	13317.4	13349.4	13208.8	13234.4	13240.8	13186.4	13301.5	13263.1	13266.3	13183.2
7.5°	13234.4	13272.7	13144.9	13164.1	13167.3	13122.5	13221.6	13167.3	13148.1	13061.8
10°	13010.7	13033.1	12918.0	12966.0	13010.7	12969.2	13055.4	12994.7	12994.7	12918.0
12.5°	12656.0	12697.6	12569.8	12627.3	12665.6	12617.7	12716.7	12694.4	12697.6	12620.9
15°	12010.6	11866.8	12020.2	12135.2	12138.4	12128.8	12221.5	12199.1	12215.1	12100.1
17.5°	8873.0	8837.8	9016.7	10374.7	11384.4	11521.8	11537.7	11416.3	11362.0	11250.2
20°	8221.2	8246.7	8208.4	8214.8	9010.4	10662.3	10563.2	10262.9	10125.5	10013.6
22.5°	7745.1	7703.5	7678.0	7662.0	7684.4	8761.1	9473.7	9019.9	8946.5	8892.1
25°	7227.5	7208.3	7176.3	7169.9	7157.2	6975.0	8000.7	8042.2	7924.0	7856.9
27.5°	6745.0	6732.2	6697.1	6693.9	6546.9	6106.0	6217.8	7205.1	7173.1	7147.6
30°	6230.6	6205.0	6185.8	6185.8	5741.7	5288.0	5105.9	6281.7	6281.7	6259.3
32.5°	5671.4	5649.0	5655.4	5578.8	5048.4	4633.0	4345.4	5422.2	5757.7	5738.5
35°	3466.8	3460.4	4109.0	4962.1	4339.0	3962.0	3942.8	4639.4	5128.2	5179.4
37.5°	3086.5	3067.4	3076.9	3131.3	3716.0	3565.8	3559.4	3677.6	4364.6	4390.2
40°	2770.2	2757.4	2747.8	2552.9	2367.6	3182.4	3160.0	3083.3	3728.8	3773.5
42.5°	2469.9	2457.1	2457.1	2182.3	1882.0	2616.8	2626.4	2537.0	3144.0	3160.0
45°	2159.9	2150.3	2096.0	1741.4	1655.1	1738.2	2175.9	2073.7	2495.4	2661.6
47.5°	1019.3	1012.9	1466.6	1447.4	1441.0	1389.9	1661.5	1719.0	1981.0	2147.1
50°	818.0	811.6	773.2	680.6	1185.4	1054.4	1198.2	1322.8	1405.9	1559.2
52.5°	677.4	671.0	591.1	524.0	658.2	770.0	715.7	885.1	881.9	1048.0
55°	444.1	412.2	453.7	428.2	345.1	559.2	546.4	671.0	655.0	798.8
57.5°	9.6	9.6	22.4	242.8	217.3	236.4	313.1	383.4	431.3	472.9
60°	3.2	3.2	6.4	12.8	89.5	99.1	121.4	140.6	198.1	246.0
62.5°	0.0	0.0	3.2	6.4	12.8	51.1	57.5	67.1	92.7	127.8
65°	0.0	0.0	0.0	3.2	6.4	12.8	19.2	41.5	57.5	73.5
67.5°	0.0	0.0	0.0	3.2	3.2	6.4	12.8	19.2	25.6	51.1
70°	0.0	0.0	0.0	3.2	3.2	6.4	9.6	12.8	19.2	25.6
72.5°	0.0	0.0	0.0	3.2	3.2	9.6	6.4	9.6	12.8	16.0
75°	0.0	0.0	0.0	3.2	3.2	3.2	6.4	9.6	9.6	12.8
77.5°	0.0	0.0	0.0	3.2	6.4	6.4	6.4	6.4	6.4	9.6
80°	0.0	0.0	0.0	3.2	3.2	6.4	9.6	12.8	6.4	6.4
82.5°	0.0	0.0	0.0	6.4	3.2	12.8	19.2	16.0	6.4	3.2
85°	0.0	0.0	0.0	3.2	12.8	16.0	16.0	9.6	3.2	3.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.4	9.6	9.6	3.2	3.2
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°
13336.6	0°	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6	13336.6
13288.7	2.5°	13215.2	13339.8	13451.6	13381.3	13355.8	13304.7	13266.3	13224.8	13221.6
13173.7	5°	13100.2	13218.4	13327.0	13243.9	13250.3	13224.8	13199.2	13189.6	13196.0
13055.4	7.5°	13001.1	13100.2	13218.4	13148.1	13167.3	13151.3	13138.5	13119.3	13148.1
12902.1	10°	12850.9	12940.4	13077.8	13010.7	13001.1	12985.1	12972.4	12937.2	12953.2
12624.1	12.5°	12521.8	12633.7	12790.2	12713.5	12739.1	12694.4	12675.2	12652.8	12656.0
12141.6	15°	12074.5	12160.8	12320.5	12259.8	12279.0	12250.3	12250.3	12250.3	12272.6
11266.1	17.5°	11294.9	11470.6	11723.0	11646.4	11675.1	11681.5	11675.1	11697.5	11726.2
10020.0	20°	10026.4	10326.8	10786.9	10937.0	10997.7	11000.9	10956.2	11010.5	11068.0
8853.8	22.5°	8860.2	9176.5	9582.3	9994.5	10250.1	10237.3	10243.7	10278.8	10339.5
7815.4	25°	7850.5	8154.1	8521.5	8888.9	9448.1	9563.1	9566.3	9598.3	9646.2
7106.0	27.5°	7122.0	7240.2	7575.7	7946.4	8547.1	8914.5	8895.3	8924.1	8975.2
6217.8	30°	6243.3	6697.1	6773.7	7000.6	7518.2	8192.4	8195.6	8227.5	8278.7
5693.8	32.5°	5677.8	5978.1	6214.6	6221.0	6661.9	7355.3	7492.7	7524.6	7559.8
5150.6	35°	5147.4	5182.6	5502.1	5591.5	5847.1	6534.1	6776.9	6796.1	6853.6
4380.6	37.5°	4454.1	4661.7	4751.2	5070.7	5083.5	5639.5	6121.9	6102.8	6147.5
3770.3	40°	3818.2	4016.3	4243.2	4476.4	4508.4	4923.7	5457.3	5476.5	5495.7
3128.1	42.5°	3153.6	3406.0	3639.3	3795.9	4013.1	4252.8	4760.8	4850.3	4895.0
2680.7	45°	2728.7	2799.0	3076.9	3307.0	3527.5	3639.3	4115.4	4278.3	4307.1
2121.6	47.5°	2150.3	2386.8	2575.3	2770.2	3045.0	3144.0	3489.1	3716.0	3738.3
1575.2	50°	1661.5	1830.8	2089.6	2265.4	2584.9	2639.2	2875.6	3169.6	3198.4
1054.4	52.5°	1188.6	1418.7	1671.1	1840.4	2147.1	2217.4	2393.2	2674.4	2693.5
808.4	55°	853.1	1003.3	1211.0	1453.8	1677.5	1834.0	1955.4	2223.8	2249.4
530.4	57.5°	581.5	722.1	808.4	1051.2	1185.4	1354.7	1453.8	1658.3	1677.5
252.4	60°	278.0	345.1	412.2	533.6	619.9	763.6	827.5	910.6	933.0
153.4	62.5°	178.9	210.9	268.4	319.5	402.6	492.1	517.6	587.9	613.5
95.9	65°	118.2	150.2	210.9	223.7	306.7	377.0	409.0	460.1	488.9
57.5	67.5°	67.1	105.4	156.6	185.3	242.8	309.9	345.1	389.8	415.4
38.3	70°	44.7	86.3	124.6	153.4	191.7	249.2	294.0	332.3	348.3
19.2	72.5°	25.6	54.3	86.3	121.4	153.4	207.7	249.2	281.2	185.3
12.8	75°	16.0	41.5	73.5	102.2	127.8	166.1	201.3	198.1	83.1
9.6	77.5°	12.8	32.0	63.9	86.3	105.4	115.0	143.8	163.0	63.9
6.4	80°	9.6	25.6	57.5	73.5	41.5	83.1	111.8	121.4	44.7
6.4	82.5°	6.4	16.0	47.9	51.1	28.8	60.7	89.5	79.9	32.0
3.2	85°	3.2	9.6	16.0	28.8	25.6	28.8	22.4	32.0	22.4
3.2	87.5°	3.2	6.4	12.8	12.8	12.8	9.6	12.8	12.8	12.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13336.6
13298.3
13275.9
13228.0
13029.9
12748.7
12282.2
11822.1
11106.4
10349.1
9729.3
9023.1
8368.1
7639.6
6914.3
6201.8
5556.4
4958.9
4377.4
3792.7
3239.9
2728.7
2271.8
1715.8
958.5
619.9
488.9
412.2
345.1
150.2
83.1
63.9
47.9
32.0
22.4
12.8
0.0

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