

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: P638191

Luminaire Tested: **IFLD-S-SA2E-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638191
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14240.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

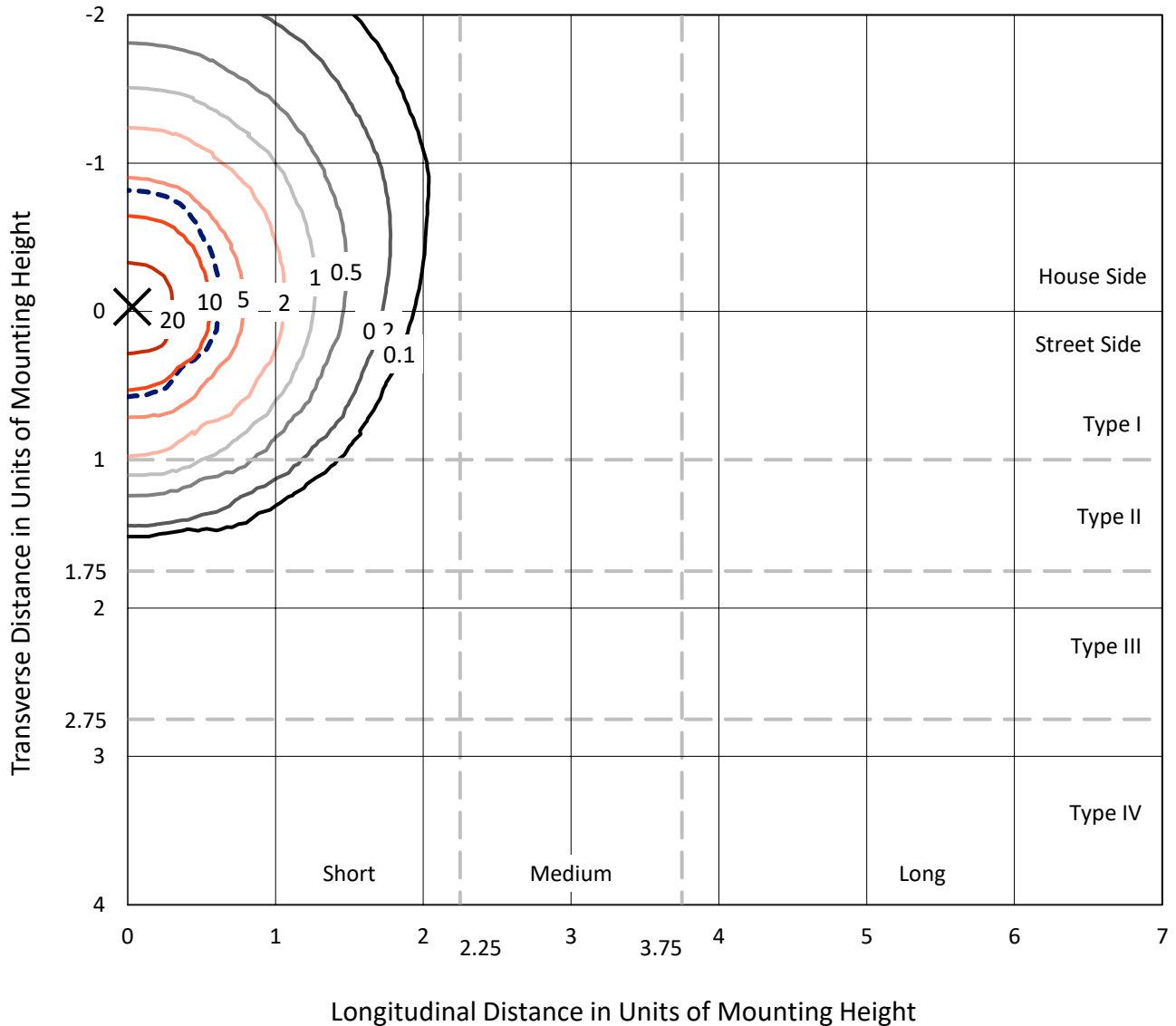
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

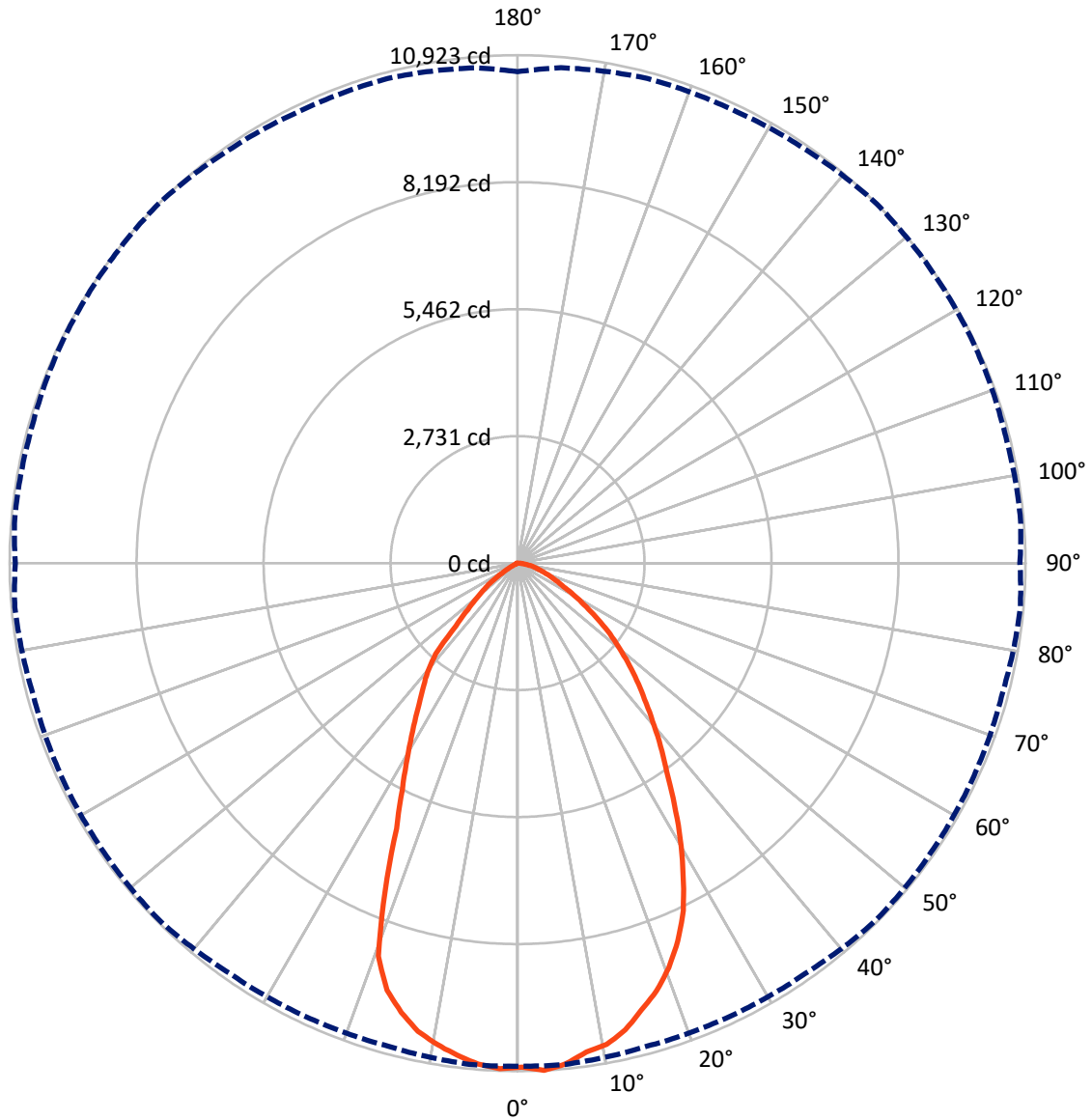
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.1 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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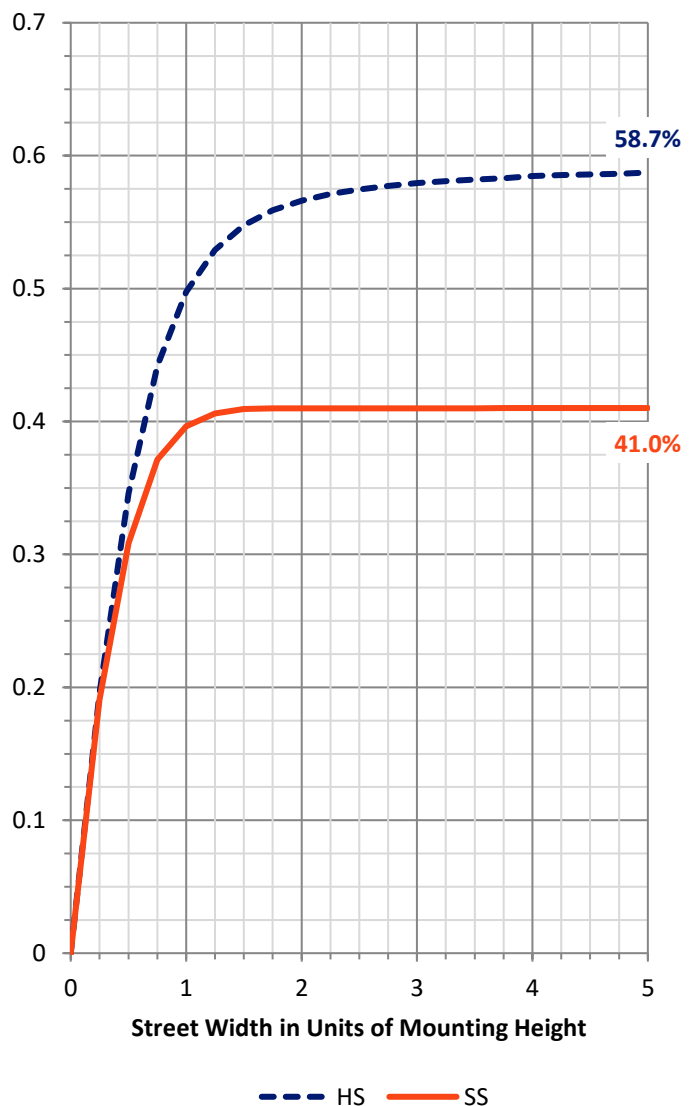
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8434.0	0.0	8434.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5806.6	0.0	5806.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	14240.5	0.0	14240.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.3	7.1
10°-20°	2725.4	19.1
20°-30°	3323.8	23.3
30°-40°	3034.6	21.3
40°-50°	2193.0	15.4
50°-60°	1197.4	8.4
60°-70°	495.1	3.5
70°-80°	200.5	1.4
80°-90°	54.5	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°	14240.5	100.0
0°-180°	14240.5	100.0

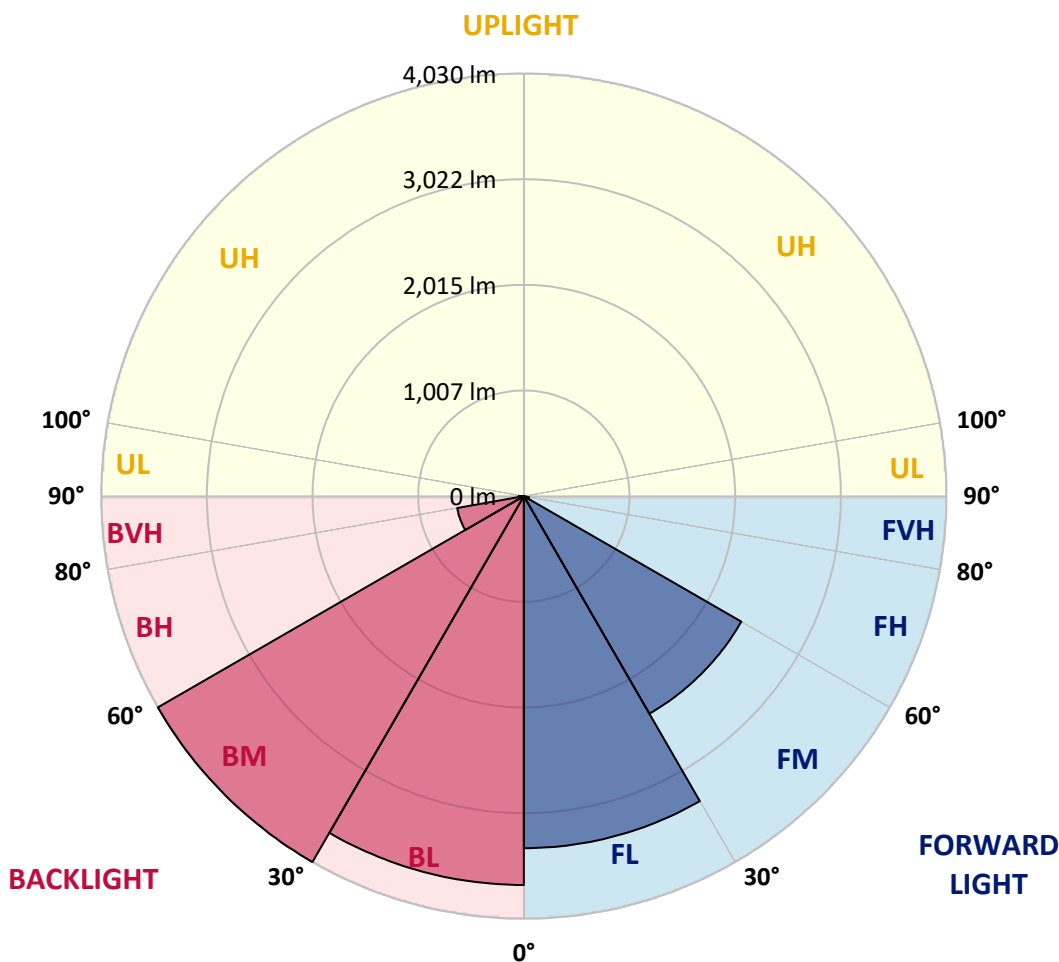


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3357.0	23.6			
FM (30°-60°)	2395.0	16.8			
FH (60°-80°)	50.2	0.4			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	3708.4	26.0	B4/5000		
BM (30°-60°)	4030.0	28.3	B3/5000		
BH (60°-80°)	645.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	50.2	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°	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0
2.5°	10817.0	10831.0	10754.8	10762.8	10776.9	10879.1	10853.1	10829.0	10794.9	10853.1
5°	10802.9	10810.9	10730.7	10702.7	10714.7	10806.9	10722.7	10722.7	10714.7	10704.7
7.5°	10694.6	10698.6	10636.5	10586.3	10618.4	10660.5	10598.4	10628.5	10584.3	10618.4
10°	10532.2	10506.1	10431.9	10417.9	10454.0	10494.1	10452.0	10480.1	10440.0	10466.0
12.5°	10293.6	10253.5	10193.3	10175.2	10237.4	10291.6	10257.5	10241.4	10189.3	10253.5
15°	9373.1	9343.0	9479.4	9718.0	9932.6	9978.7	9942.6	9958.7	9850.4	9868.4
17.5°	7714.7	7658.5	7804.9	8370.4	9176.6	9601.7	9569.6	9465.3	9304.9	9341.0
20°	7010.8	6994.7	6978.7	7113.0	7676.6	8966.0	9010.1	8745.4	8516.8	8466.7
22.5°	6613.7	6607.7	6591.7	6621.7	6770.1	7598.3	8103.7	7859.0	7706.6	7692.6
25°	6250.7	6240.7	6192.6	6230.7	6230.7	6278.8	6926.5	7074.9	6940.6	6924.5
27.5°	5881.8	5863.7	5855.7	5873.7	5781.5	5456.6	5621.1	6345.0	6274.8	6278.8
30°	5482.7	5476.7	5454.6	5492.7	5207.9	4804.9	4700.6	5683.2	5697.3	5693.2
32.5°	4889.1	4915.2	5015.4	5057.5	4588.3	4255.4	4080.9	4917.2	5203.9	5197.9
35°	3551.5	3551.5	3878.4	4486.0	4020.8	3770.1	3675.8	4169.2	4716.6	4736.7
37.5°	2919.8	2929.8	2994.0	3270.8	3469.3	3381.1	3353.0	3509.4	4091.0	4123.0
40°	2627.0	2627.0	2627.0	2512.7	2506.7	3046.2	3030.1	2980.0	3533.5	3603.6
42.5°	2360.3	2366.3	2370.3	2081.6	1921.1	2633.1	2597.0	2520.8	3034.1	3116.3
45°	2085.6	2095.6	2107.6	1740.7	1670.5	1895.1	2197.9	2113.7	2540.8	2647.1
47.5°	1273.4	1289.5	1562.2	1476.0	1484.0	1461.9	1792.8	1778.8	2083.6	2234.0
50°	860.3	866.3	892.4	936.5	1273.4	1149.1	1269.4	1471.9	1582.2	1810.8
52.5°	721.9	732.0	667.8	607.6	836.2	898.4	886.4	1092.9	1137.0	1419.8
55°	507.4	539.4	509.4	503.3	475.3	697.9	671.8	840.3	868.3	1078.9
57.5°	52.1	60.2	104.3	375.0	310.8	395.1	479.3	615.6	643.7	796.1
60°	4.0	4.0	10.0	52.1	226.6	236.6	330.9	379.0	433.2	555.5
62.5°	0.0	2.0	4.0	8.0	36.1	126.3	166.4	198.5	260.7	359.0
65°	0.0	0.0	2.0	6.0	8.0	48.1	64.2	104.3	142.4	222.6
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	22.1	38.1	76.2	126.3
70°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	24.1	34.1	68.2
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	12.0	16.0	24.1	34.1
75°	0.0	0.0	2.0	2.0	6.0	12.0	10.0	12.0	16.0	22.1
77.5°	0.0	0.0	2.0	4.0	6.0	12.0	10.0	12.0	12.0	14.0
80°	0.0	0.0	2.0	4.0	8.0	14.0	12.0	12.0	10.0	10.0
82.5°	0.0	0.0	2.0	6.0	8.0	18.0	18.0	16.0	8.0	6.0
85°	0.0	0.0	4.0	8.0	12.0	20.1	20.1	16.0	6.0	4.0
87.5°	0.0	0.0	4.0	6.0	10.0	14.0	20.1	16.0	6.0	2.0
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°
10837.0	0°	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0	10837.0
10802.9	2.5°	10857.1	10845.0	10885.1	10901.2	10923.3	10839.0	10786.9	10788.9	10692.6
10680.6	5°	10744.8	10746.8	10798.9	10794.9	10817.0	10770.8	10750.8	10716.7	10632.5
10526.2	7.5°	10602.4	10584.3	10634.5	10672.6	10616.4	10648.5	10602.4	10618.4	10568.3
10389.8	10°	10492.1	10450.0	10496.1	10522.2	10524.2	10492.1	10448.0	10405.9	10387.8
10177.3	12.5°	10247.4	10193.3	10271.5	10307.6	10301.6	10239.4	10189.3	10199.3	10141.2
9804.3	15°	9910.5	9912.5	9968.7	10002.8	9970.7	9956.7	9960.7	9936.6	9886.5
9288.9	17.5°	9395.2	9425.2	9573.6	9655.9	9673.9	9645.8	9631.8	9603.7	9553.6
8466.7	20°	8536.9	8717.3	8982.1	9236.7	9286.9	9278.8	9228.7	9216.7	9188.6
7652.5	22.5°	7782.8	7917.2	8224.0	8621.1	8825.6	8845.7	8785.5	8767.5	8737.4
6924.5	25°	7002.8	7147.1	7423.9	7855.0	8278.2	8364.4	8354.4	8300.2	8268.1
6278.8	27.5°	6345.0	6489.4	6740.0	7129.1	7582.3	7859.0	7885.1	7798.9	7796.9
5703.3	30°	5751.4	5949.9	6140.4	6457.3	6896.5	7311.6	7355.7	7295.5	7301.6
5175.9	32.5°	5286.2	5450.6	5613.0	5825.6	6190.6	6673.9	6846.3	6790.2	6768.1
4736.7	35°	4810.9	4923.2	5089.6	5284.1	5532.8	6012.1	6310.9	6268.8	6246.7
4143.1	37.5°	4269.4	4461.9	4582.3	4800.9	4995.4	5376.4	5797.5	5791.5	5745.4
3637.7	40°	3713.9	3916.5	4099.0	4319.6	4470.0	4772.8	5240.0	5238.0	5244.0
3114.3	42.5°	3210.6	3397.1	3617.7	3858.3	4002.7	4223.3	4724.7	4752.7	4786.8
2683.2	45°	2755.4	2923.8	3128.4	3421.2	3595.6	3722.0	4167.2	4295.5	4293.5
2298.2	47.5°	2346.3	2504.7	2677.2	2961.9	3184.5	3298.8	3667.8	3850.3	3838.3
1885.0	50°	1969.3	2109.6	2290.1	2496.7	2795.5	2895.8	3170.5	3411.1	3393.1
1502.0	52.5°	1584.2	1778.8	1931.2	2119.7	2434.5	2532.8	2745.4	2980.0	2965.9
1127.0	55°	1235.3	1423.8	1608.3	1770.7	2035.5	2181.8	2334.3	2574.9	2570.9
882.4	57.5°	934.5	1141.1	1315.5	1469.9	1680.5	1861.0	1983.3	2201.9	2230.0
603.6	60°	691.9	850.3	1038.8	1211.2	1377.7	1564.2	1646.4	1861.0	1873.0
413.1	62.5°	471.3	645.7	830.2	986.6	1111.0	1303.5	1377.7	1554.2	1576.2
264.7	65°	326.9	439.2	649.7	762.0	914.4	1078.9	1153.1	1293.5	1337.6
152.4	67.5°	216.6	312.8	507.4	609.6	760.0	872.3	966.6	1080.9	1129.0
96.3	70°	118.3	230.6	363.0	481.3	611.6	719.9	812.2	904.4	946.5
44.1	72.5°	80.2	154.4	252.7	381.0	493.3	599.6	681.8	750.0	752.0
26.1	75°	40.1	104.3	192.5	294.8	385.0	489.3	563.5	603.6	555.5
16.0	77.5°	24.1	76.2	156.4	236.6	312.8	395.1	437.2	459.2	381.0
12.0	80°	14.0	54.1	122.3	188.5	216.6	290.8	330.9	336.9	254.7
8.0	82.5°	10.0	40.1	96.3	138.4	132.4	204.5	248.7	240.6	162.4
6.0	85°	6.0	28.1	60.2	86.2	80.2	134.4	144.4	148.4	94.3
4.0	87.5°	4.0	16.0	32.1	46.1	38.1	58.2	58.2	70.2	46.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/>
10837.0
10568.3
10612.4
10484.1
10307.6
10091.0
9836.3
9531.5
9124.4
8729.4
8234.0
7792.9
7271.5
6770.1
6216.6
5783.5
5244.0
4768.8
4297.5
3842.3
3409.1
2996.0
2580.9
2217.9
1891.1
1580.2
1327.6
1123.0
930.5
734.0
519.4
367.0
238.6
150.4
86.2
40.1
0.0

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