

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: P637901

Luminaire Tested: **IFLD-S-SA2E-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15261.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

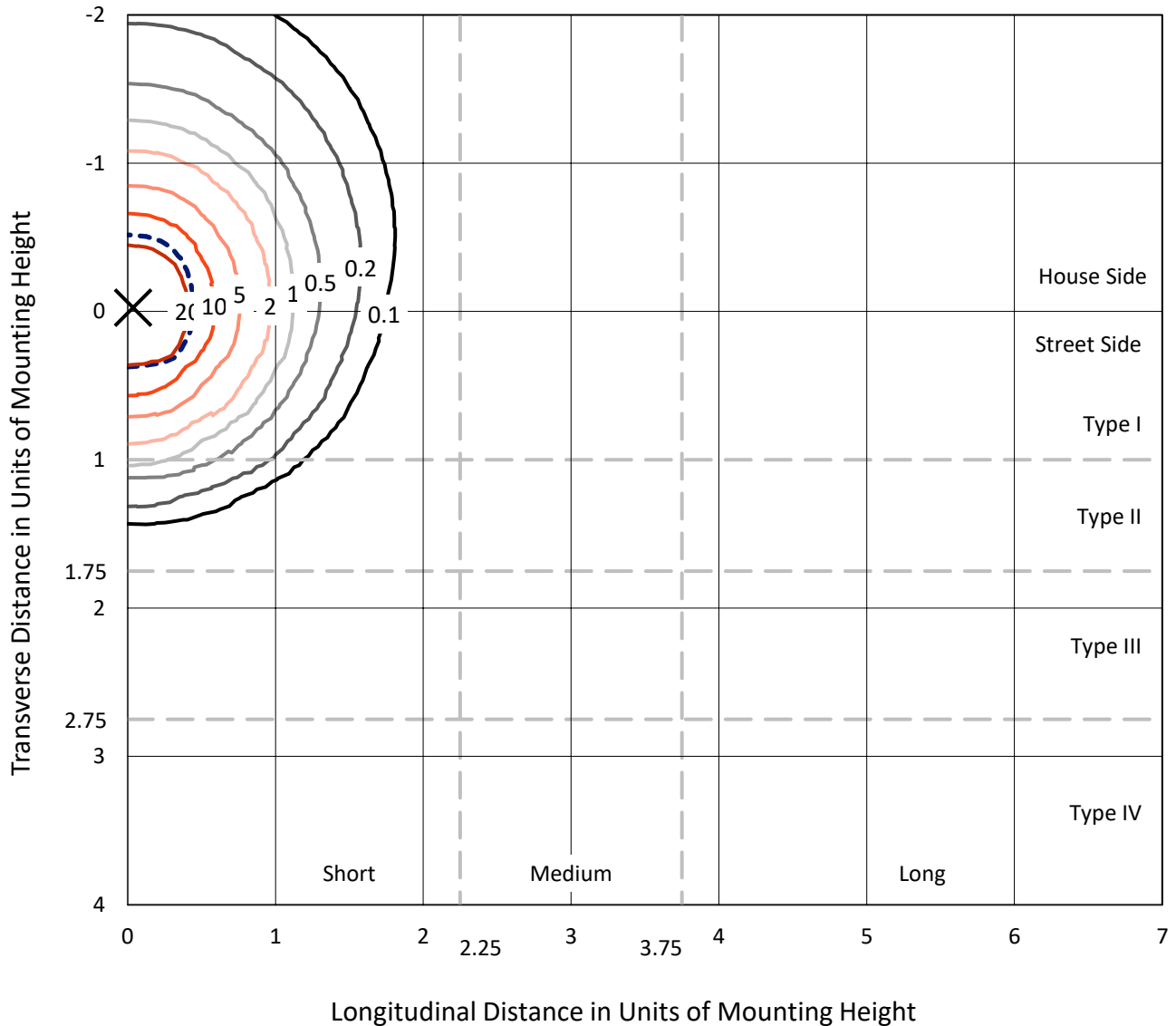
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

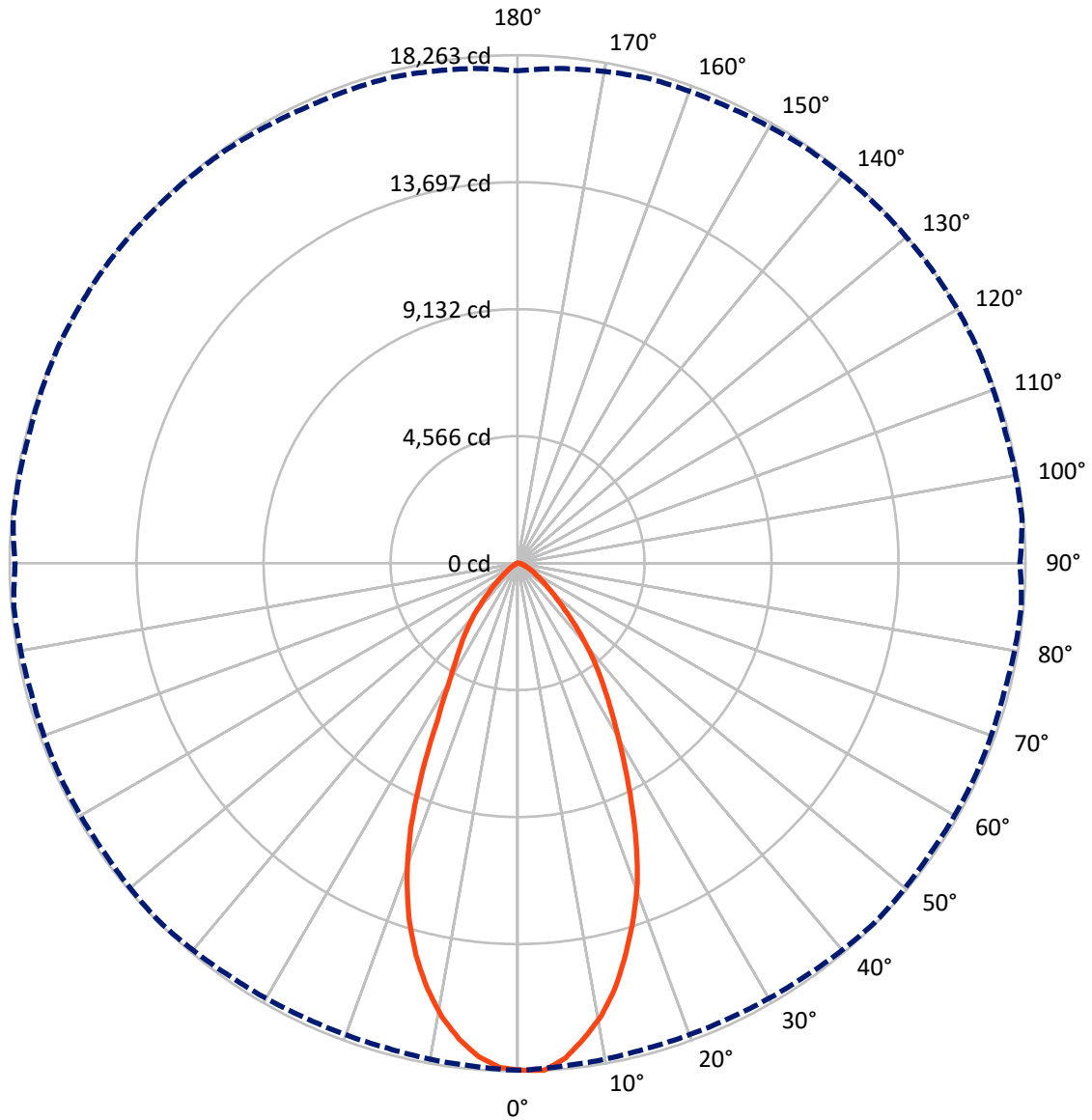
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.6 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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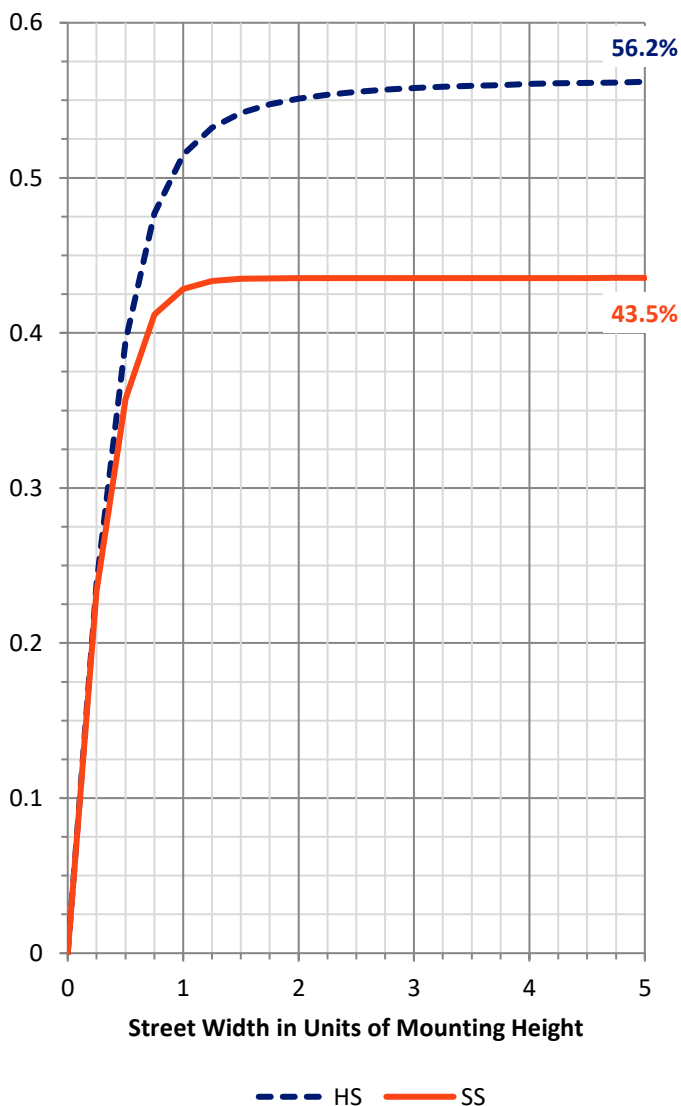
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8660.0	0.0	8660.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6601.6	0.0	6601.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	15261.6	0.0	15261.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1655.7	10.8
10°-20°	3946.8	25.9
20°-30°	4019.8	26.3
30°-40°	2997.5	19.6
40°-50°	1566.0	10.3
50°-60°	658.7	4.3
60°-70°	269.0	1.8
70°-80°	113.2	0.7
80°-90°	34.9	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°	15261.6	100.0
0°-180°	15261.6	100.0



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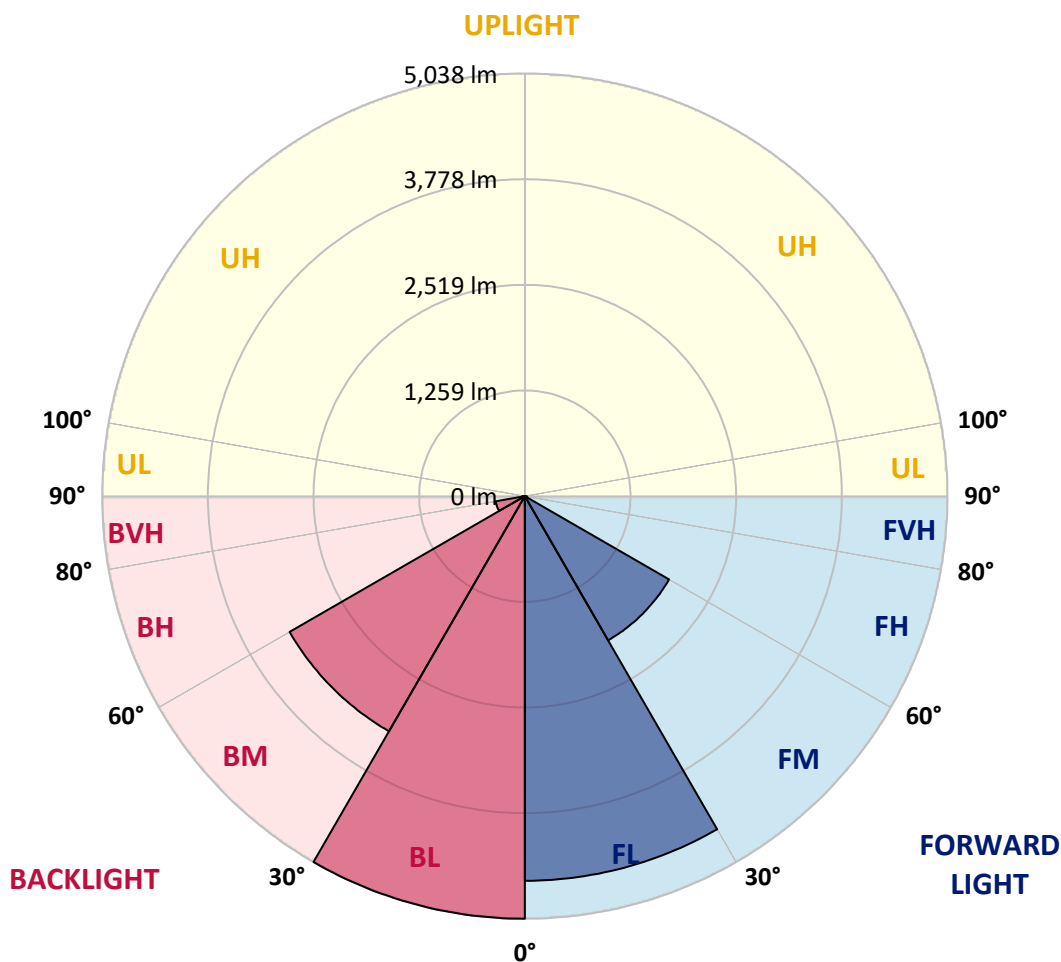
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4584.8	30.0			
FM (30°-60°)	1984.8	13.0			
FH (60°-80°)	28.7	0.2			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	5037.6	33.0	B5		
BM (30°-60°)	3237.4	21.2	B3/5000		
BH (60°-80°)	353.5	2.3	B1/500		G1/500
BVH (80°-90°)	31.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9
2.5°	18235.9	18161.4	18055.5	18045.7	18100.6	18220.2	18143.7	18147.7	18100.6	18181.0
5°	17949.7	17879.1	17806.6	17710.5	17790.9	17841.8	17802.6	17759.5	17698.7	17777.1
7.5°	17408.6	17369.4	17261.6	17218.4	17267.4	17324.3	17240.0	17228.2	17143.9	17245.9
10°	16581.3	16565.6	16459.7	16434.3	16477.4	16563.6	16526.4	16518.6	16465.6	16455.8
12.5°	15722.6	15661.8	15530.5	15522.7	15587.4	15716.7	15616.8	15520.7	15550.1	15575.6
15°	13511.3	13446.6	13772.0	14283.7	14552.2	14542.4	14571.9	14456.2	14420.9	14432.7
17.5°	10741.2	10631.4	10749.0	11541.0	12817.3	13558.3	13354.4	13105.5	12972.1	12883.9
20°	9270.9	9276.7	9255.2	9459.1	10255.0	11944.9	11895.9	11415.6	11241.1	11168.5
22.5°	8376.9	8343.6	8296.5	8361.2	8574.9	9566.9	10231.5	9790.4	9729.6	9649.2
25°	7500.6	7500.6	7443.7	7508.4	7569.2	7582.9	8249.5	8429.8	8312.2	8312.2
27.5°	6741.9	6702.7	6677.2	6706.6	6626.2	6240.0	6324.3	7247.7	7167.3	7118.3
30°	5989.1	5977.3	5934.2	5973.4	5675.4	5240.2	5063.8	6116.5	6200.8	6183.2
32.5°	4944.2	4991.2	5183.4	5244.1	4734.4	4383.5	4214.9	5077.5	5414.7	5401.0
35°	3360.2	3399.4	3618.9	4344.3	3924.8	3673.8	3624.8	4038.5	4593.3	4646.2
37.5°	2676.0	2670.1	2732.8	2862.2	3154.3	3093.6	3079.8	3187.7	3746.4	3769.9
40°	2205.5	2197.6	2195.7	2089.8	2017.3	2572.1	2534.8	2470.1	2954.4	3001.4
42.5°	1778.1	1785.9	1791.8	1560.5	1454.6	1984.0	1962.4	1895.7	2317.2	2372.1
45°	1395.8	1393.9	1405.6	1162.5	1133.1	1268.4	1466.4	1413.5	1748.7	1807.5
47.5°	723.4	748.9	907.7	899.8	913.6	899.8	1109.6	1095.9	1315.4	1409.5
50°	486.2	494.0	507.8	509.7	719.5	662.6	752.8	852.8	921.4	1066.5
52.5°	376.4	382.3	347.0	325.4	441.1	490.1	494.0	590.1	643.0	790.1
55°	209.8	235.3	252.9	254.9	243.1	362.7	360.7	437.2	478.3	576.4
57.5°	27.4	33.3	51.0	164.7	162.7	201.9	252.9	317.6	341.1	421.5
60°	2.0	3.9	5.9	25.5	107.8	117.6	172.5	198.0	237.2	296.0
62.5°	0.0	0.0	2.0	5.9	21.6	68.6	90.2	103.9	139.2	194.1
65°	0.0	0.0	2.0	3.9	7.8	25.5	35.3	56.9	82.3	119.6
67.5°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	25.5	43.1	72.5
70°	0.0	0.0	2.0	3.9	5.9	7.8	11.8	15.7	23.5	39.2
72.5°	0.0	0.0	2.0	2.0	3.9	9.8	9.8	11.8	15.7	21.6
75°	0.0	0.0	2.0	3.9	5.9	9.8	9.8	9.8	11.8	13.7
77.5°	0.0	0.0	2.0	3.9	5.9	9.8	7.8	9.8	9.8	9.8
80°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	9.8	7.8	7.8
82.5°	0.0	0.0	2.0	5.9	5.9	13.7	13.7	13.7	5.9	5.9
85°	0.0	0.0	3.9	5.9	9.8	15.7	15.7	11.8	5.9	3.9
87.5°	0.0	0.0	2.0	3.9	3.9	7.8	11.8	9.8	3.9	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°
18233.9	0°	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9	18233.9
18063.4	2.5°	18208.4	18159.4	18251.6	18263.3	18224.1	18175.1	18061.4	18051.6	17853.6
17663.4	5°	17863.4	17783.0	17841.8	17881.0	17867.3	17814.4	17767.3	17724.2	17545.8
17014.5	7.5°	17220.4	17191.0	17218.4	17247.8	17304.7	17247.8	17228.2	17183.1	17006.7
16375.4	10°	16506.8	16451.9	16555.8	16542.1	16526.4	16510.7	16428.4	16436.2	16228.4
15505.0	12.5°	15630.5	15538.3	15638.3	15650.1	15638.3	15583.4	15491.3	15530.5	15340.3
14328.8	15°	14452.3	14442.5	14515.0	14562.0	14595.4	14536.6	14505.2	14524.8	14411.1
12815.3	17.5°	13005.5	13132.9	13370.1	13450.5	13452.4	13513.2	13495.6	13472.1	13387.8
11139.1	20°	11303.8	11548.9	11913.5	12288.0	12395.8	12344.8	12321.3	12364.4	12238.9
9564.9	22.5°	9733.5	9943.3	10366.7	10913.7	11229.3	11260.7	11254.8	11217.6	11168.5
8304.4	25°	8400.4	8586.7	8992.5	9492.4	10098.2	10188.3	10192.3	10180.5	10137.4
7161.4	27.5°	7275.1	7500.6	7724.1	8171.1	8816.0	9188.5	9141.5	9127.7	9112.1
6196.9	30°	6255.7	6540.0	6749.7	7028.1	7606.5	8110.3	8159.3	8135.8	8098.5
5399.0	32.5°	5448.0	5616.6	5883.2	6071.4	6487.1	7057.5	7245.7	7228.1	7194.8
4679.5	35°	4746.2	4812.8	5022.6	5232.4	5508.8	6061.6	6340.0	6300.8	6294.9
3813.0	37.5°	3909.1	4132.6	4248.2	4460.0	4654.1	5083.4	5467.6	5450.0	5451.9
3066.1	40°	3156.3	3285.7	3515.0	3693.4	3871.8	4185.5	4612.9	4624.6	4620.7
2374.1	42.5°	2423.1	2548.6	2789.7	2983.8	3142.6	3336.6	3744.4	3758.1	3775.8
1848.7	45°	1891.8	1972.2	2148.6	2350.6	2519.1	2636.8	2946.5	3034.7	3036.7
1433.1	47.5°	1468.4	1560.5	1686.0	1880.0	2044.7	2129.0	2354.5	2474.1	2468.2
1099.8	50°	1152.7	1237.0	1339.0	1491.9	1670.3	1736.9	1903.6	2021.2	2015.3
829.3	52.5°	882.2	990.0	1080.2	1197.8	1372.3	1429.2	1548.7	1684.0	1664.4
607.7	55°	668.5	778.3	862.6	960.6	1119.4	1191.9	1274.3	1382.1	1386.0
470.5	57.5°	503.8	617.5	694.0	794.0	913.6	993.9	1056.7	1172.3	1170.4
321.5	60°	360.7	458.7	550.9	654.8	746.9	839.1	882.2	992.0	995.9
227.4	62.5°	260.7	352.9	441.1	531.3	613.6	703.8	743.0	829.3	841.0
149.0	65°	182.3	247.0	349.0	417.6	509.7	576.4	627.3	701.8	715.6
88.2	67.5°	117.6	178.4	276.4	337.2	421.5	478.3	531.3	590.1	607.7
56.9	70°	70.6	135.3	205.8	270.5	347.0	398.0	448.9	499.9	509.7
27.4	72.5°	45.1	94.1	149.0	219.6	278.4	333.3	378.4	415.6	386.2
17.6	75°	25.5	64.7	117.6	172.5	225.4	278.4	315.6	335.2	268.6
11.8	77.5°	15.7	47.1	96.1	139.2	174.5	223.5	247.0	258.8	192.1
7.8	80°	9.8	35.3	80.4	113.7	113.7	164.7	192.1	201.9	139.2
5.9	82.5°	7.8	25.5	62.7	86.3	76.5	123.5	151.0	152.9	98.0
3.9	85°	5.9	19.6	39.2	56.9	52.9	86.3	88.2	98.0	64.7
3.9	87.5°	3.9	11.8	23.5	33.3	29.4	41.2	47.1	52.9	35.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18233.9
17698.7
17402.7
16969.5
16157.8
15285.4
14273.9
13262.3
12148.8
11074.4
9992.3
9019.9
8051.5
7106.5
6230.2
5389.2
4552.1
3717.0
2985.7
2446.6
2015.3
1666.4
1386.0
1166.5
986.1
837.1
711.6
605.8
501.9
358.8
254.9
180.4
129.4
90.2
58.8
31.4
0.0

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