

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: P638256

Luminaire Tested: **IFLD-S-SA6B-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638256
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18873.8 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

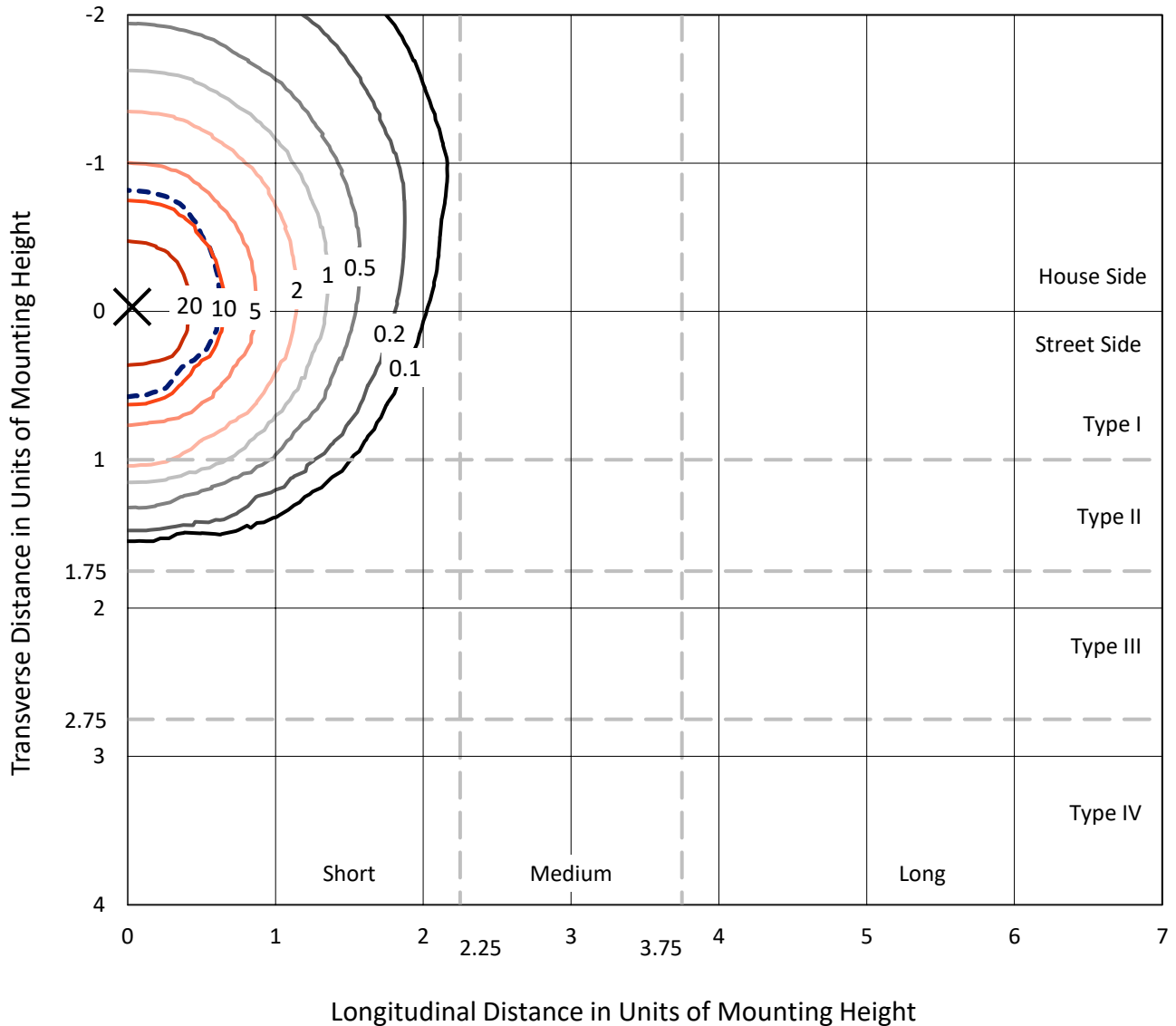
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

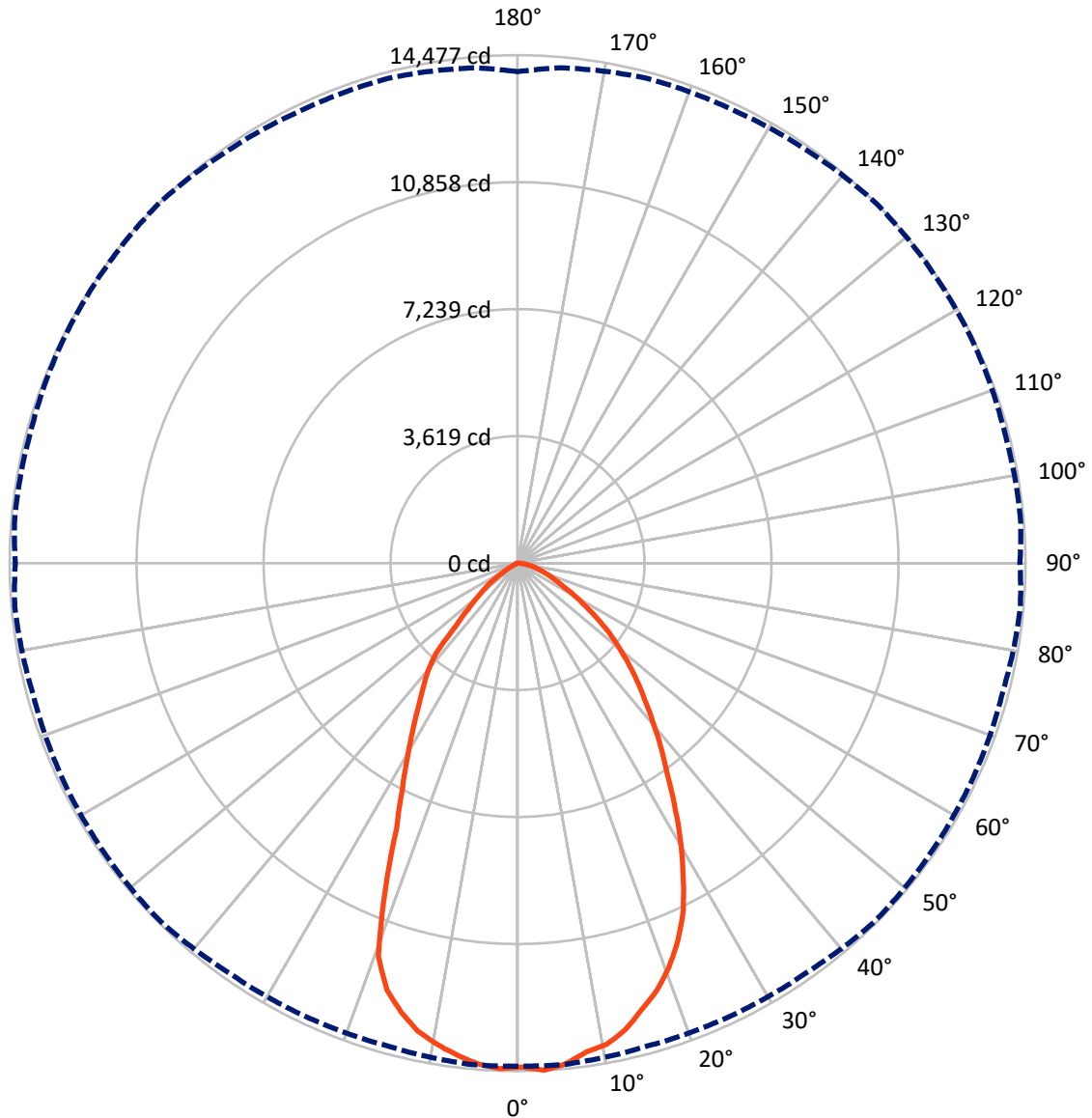
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 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
House Side	Lumens	11178.0	0.0	11178.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7695.8	0.0	7695.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	18873.8	0.0	18873.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1347.0	7.1
10°-20°	3612.1	19.1
20°-30°	4405.2	23.3
30°-40°	4021.9	21.3
40°-50°	2906.5	15.4
50°-60°	1587.0	8.4
60°-70°	656.2	3.5
70°-80°	265.7	1.4
80°-90°	72.3	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°	18873.8	100.0
0°-180°	18873.8	100.0



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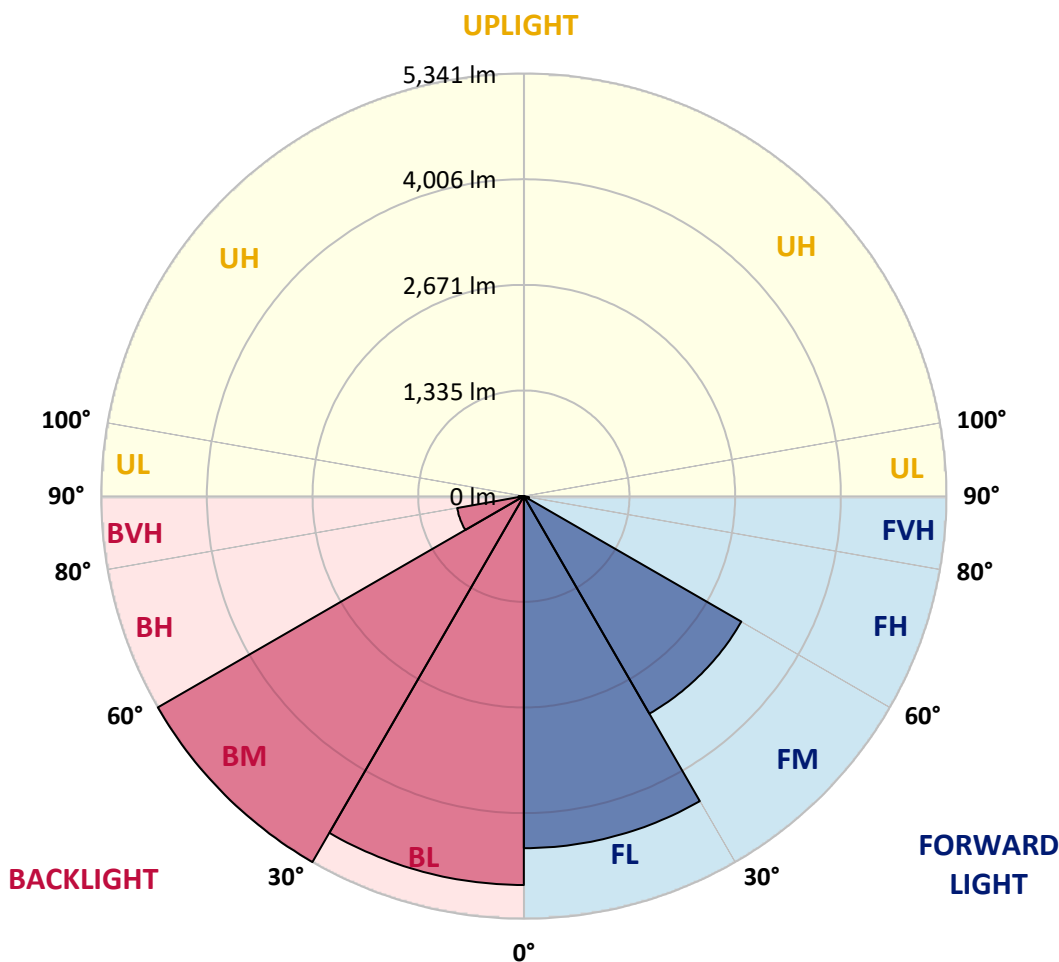
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4449.3	23.6			
FM (30°-60°)	3174.2	16.8			
FH (60°-80°)	66.5	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	4915.0	26.0	B4/5000		
BM (30°-60°)	5341.1	28.3	B4/8500		
BH (60°-80°)	855.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.5	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°	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9
2.5°	14336.3	14354.9	14253.9	14264.6	14283.2	14418.7	14384.2	14352.3	14307.1	14384.2
5°	14317.7	14328.3	14222.0	14184.8	14200.8	14323.0	14211.4	14211.4	14200.8	14187.5
7.5°	14174.2	14179.5	14097.1	14030.7	14073.2	14129.0	14046.6	14086.5	14028.0	14073.2
10°	13958.9	13924.3	13826.0	13807.4	13855.2	13908.4	13852.6	13889.8	13836.6	13871.2
12.5°	13642.6	13589.5	13509.7	13485.8	13568.2	13640.0	13594.8	13573.5	13504.4	13589.5
15°	12422.7	12382.8	12563.5	12879.8	13164.2	13225.3	13177.5	13198.8	13055.2	13079.2
17.5°	10224.7	10150.2	10344.3	11093.8	12162.2	12725.7	12683.1	12544.9	12332.3	12380.2
20°	9291.8	9270.5	9249.2	9427.3	10174.2	11883.1	11941.6	11590.8	11287.8	11221.3
22.5°	8765.5	8757.5	8736.3	8776.1	8972.8	10070.5	10740.3	10416.0	10214.0	10195.4
25°	8284.4	8271.2	8207.4	8257.9	8257.9	8321.7	9180.1	9376.8	9198.7	9177.5
27.5°	7795.4	7771.5	7760.9	7784.8	7662.5	7231.9	7449.9	8409.4	8316.3	8321.7
30°	7266.5	7258.5	7229.3	7279.8	6902.4	6368.2	6229.9	7532.3	7550.9	7545.6
32.5°	6479.8	6514.3	6647.2	6703.0	6081.1	5639.9	5408.7	6517.0	6897.1	6889.1
35°	4707.0	4707.0	5140.2	5945.6	5328.9	4996.7	4871.8	5525.6	6251.2	6277.8
37.5°	3869.8	3883.1	3968.1	4334.9	4598.0	4481.1	4443.9	4651.2	5422.0	5464.5
40°	3481.8	3481.8	3481.8	3330.3	3322.3	4037.2	4016.0	3949.5	4683.1	4776.1
42.5°	3128.3	3136.2	3141.5	2758.8	2546.2	3489.7	3441.9	3340.9	4021.3	4130.3
45°	2764.1	2777.4	2793.4	2307.0	2214.0	2511.6	2913.0	2801.3	3367.5	3508.3
47.5°	1687.7	1709.0	2070.4	1956.2	1966.8	1937.6	2376.1	2357.5	2761.5	2960.8
50°	1140.2	1148.2	1182.7	1241.2	1687.7	1522.9	1682.4	1950.8	2097.0	2400.0
52.5°	956.8	970.1	885.1	805.3	1108.3	1190.7	1174.8	1448.5	1507.0	1881.7
55°	672.4	715.0	675.1	667.1	629.9	924.9	890.4	1113.6	1150.8	1429.9
57.5°	69.1	79.7	138.2	497.0	412.0	523.6	635.2	816.0	853.2	1055.2
60°	5.3	5.3	13.3	69.1	300.3	313.6	438.5	502.3	574.1	736.2
62.5°	0.0	2.7	5.3	10.6	47.8	167.4	220.6	263.1	345.5	475.8
65°	0.0	0.0	2.7	8.0	10.6	63.8	85.1	138.2	188.7	295.0
67.5°	0.0	0.0	2.7	5.3	8.0	15.9	29.2	50.5	101.0	167.4
70°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	31.9	45.2	90.4
72.5°	0.0	0.0	2.7	2.7	5.3	13.3	15.9	21.3	31.9	45.2
75°	0.0	0.0	2.7	2.7	8.0	15.9	13.3	15.9	21.3	29.2
77.5°	0.0	0.0	2.7	5.3	8.0	15.9	13.3	15.9	15.9	18.6
80°	0.0	0.0	2.7	5.3	10.6	18.6	15.9	15.9	13.3	13.3
82.5°	0.0	0.0	2.7	8.0	10.6	23.9	23.9	21.3	10.6	8.0
85°	0.0	0.0	5.3	10.6	15.9	26.6	26.6	21.3	8.0	5.3
87.5°	0.0	0.0	5.3	8.0	13.3	18.6	26.6	21.3	8.0	2.7
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°
14362.9	0°	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9	14362.9
14317.7	2.5°	14389.5	14373.5	14426.7	14447.9	14477.2	14365.5	14296.4	14299.1	14171.5
14155.6	5°	14240.6	14243.3	14312.4	14307.1	14336.3	14275.2	14248.6	14203.4	14091.8
13950.9	7.5°	14051.9	14028.0	14094.4	14144.9	14070.5	14113.1	14051.9	14073.2	14006.7
13770.2	10°	13905.7	13849.9	13911.1	13945.6	13948.3	13905.7	13847.3	13791.5	13767.5
13488.5	12.5°	13581.5	13509.7	13613.4	13661.2	13653.3	13570.9	13504.4	13517.7	13440.6
12994.1	15°	13135.0	13137.6	13212.1	13257.2	13214.7	13196.1	13201.4	13169.5	13103.1
12311.0	17.5°	12451.9	12491.8	12688.5	12797.4	12821.4	12784.1	12765.5	12728.3	12661.9
11221.3	20°	11314.4	11553.6	11904.4	12241.9	12308.4	12297.8	12231.3	12215.4	12178.2
10142.3	22.5°	10315.0	10493.1	10899.7	11426.0	11697.1	11723.7	11643.9	11620.0	11580.1
9177.5	25°	9281.1	9472.5	9839.3	10410.7	10971.5	11085.8	11072.5	11000.7	10958.2
8321.7	27.5°	8409.4	8600.7	8933.0	9448.6	10049.2	10416.0	10450.6	10336.3	10333.6
7558.9	30°	7622.6	7885.8	8138.3	8558.2	9140.3	9690.4	9748.9	9669.2	9677.1
6859.8	32.5°	7006.0	7224.0	7439.3	7721.0	8204.7	8845.2	9073.8	8999.4	8970.2
6277.8	35°	6376.1	6525.0	6745.6	7003.4	7332.9	7968.2	8364.2	8308.4	8279.1
5491.1	37.5°	5658.5	5913.7	6073.1	6362.8	6620.6	7125.6	7683.8	7675.8	7614.7
4821.3	40°	4922.3	5190.7	5432.6	5725.0	5924.3	6325.6	6944.9	6942.2	6950.2
4127.6	42.5°	4255.2	4502.4	4794.7	5113.7	5305.0	5597.4	6261.8	6299.0	6344.2
3556.2	45°	3651.9	3875.1	4146.2	4534.3	4765.5	4932.9	5523.0	5693.1	5690.4
3045.9	47.5°	3109.7	3319.6	3548.2	3925.6	4220.6	4372.1	4861.2	5103.0	5087.1
2498.4	50°	2610.0	2796.0	3035.2	3309.0	3705.0	3837.9	4202.0	4521.0	4497.0
1990.7	52.5°	2099.7	2357.5	2559.5	2809.3	3226.6	3356.8	3638.6	3949.5	3930.9
1493.7	55°	1637.2	1887.1	2131.6	2346.9	2697.7	2891.7	3093.7	3412.6	3407.3
1169.4	57.5°	1238.5	1512.3	1743.5	1948.2	2227.3	2466.5	2628.6	2918.3	2955.5
800.0	60°	916.9	1126.9	1376.8	1605.3	1825.9	2073.1	2182.1	2466.5	2482.4
547.5	62.5°	624.6	855.8	1100.3	1307.7	1472.4	1727.6	1825.9	2059.8	2089.1
350.8	65°	433.2	582.1	861.1	1010.0	1212.0	1429.9	1528.2	1714.3	1772.8
202.0	67.5°	287.0	414.6	672.4	808.0	1007.3	1156.2	1281.1	1432.6	1496.4
127.6	70°	156.8	305.6	481.1	637.9	810.6	954.2	1076.4	1198.7	1254.5
58.5	72.5°	106.3	204.7	334.9	505.0	653.8	794.7	903.7	994.0	996.7
34.6	75°	53.2	138.2	255.2	390.7	510.3	648.5	746.8	800.0	736.2
21.3	77.5°	31.9	101.0	207.3	313.6	414.6	523.6	579.4	608.6	505.0
15.9	80°	18.6	71.8	162.1	249.8	287.0	385.4	438.5	446.5	337.5
10.6	82.5°	13.3	53.2	127.6	183.4	175.4	271.1	329.6	318.9	215.3
8.0	85°	8.0	37.2	79.7	114.3	106.3	178.1	191.4	196.7	124.9
5.3	87.5°	5.3	21.3	42.5	61.1	50.5	77.1	77.1	93.0	61.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14362.9
14006.7
14065.2
13895.1
13661.2
13374.2
13036.6
12632.6
12093.1
11569.5
10913.0
10328.3
9637.3
8972.8
8239.3
7665.2
6950.2
6320.3
5695.7
5092.4
4518.3
3970.8
3420.6
2939.6
2506.3
2094.4
1759.5
1488.4
1233.2
972.8
688.4
486.4
316.3
199.3
114.3
53.2
0.0

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