

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: P636731

Luminaire Tested: **IFLD-L-SA7D-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23754 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

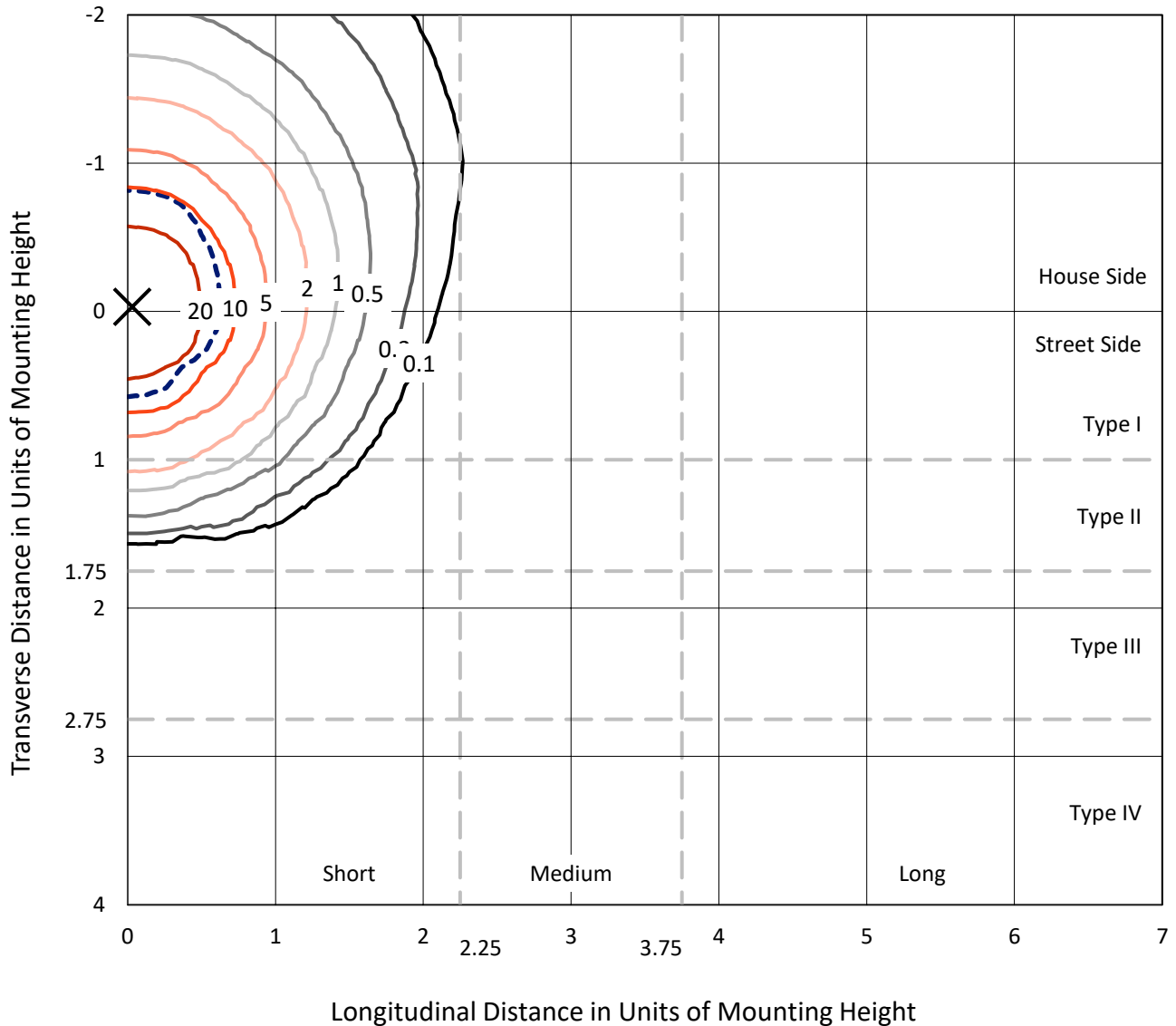
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

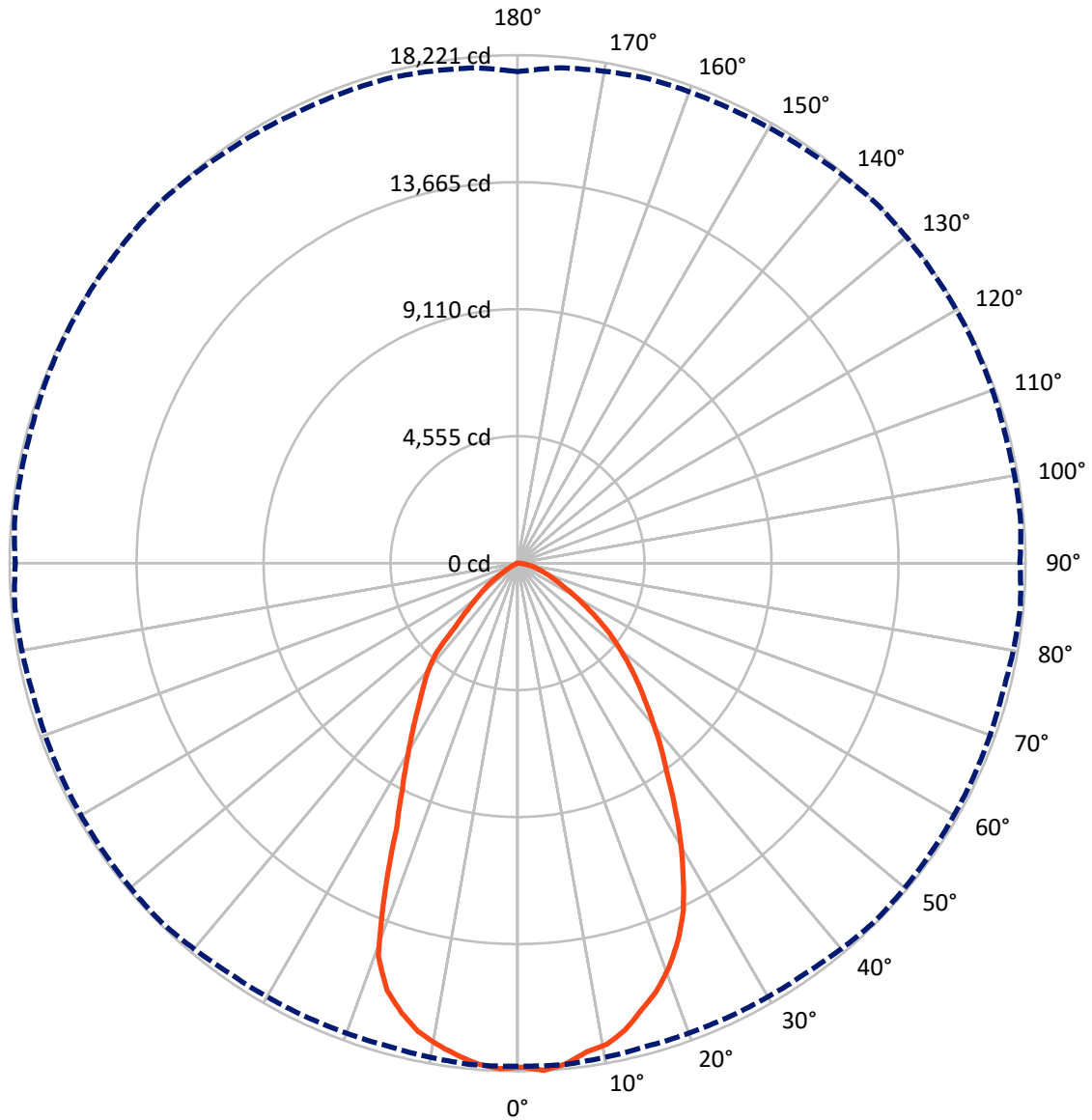
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.2 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	14068.3	0.0	14068.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9685.7	0.0	9685.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	23754.0	0.0	23754.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1695.3	7.1
10°-20°	4546.1	19.1
20°-30°	5544.2	23.3
30°-40°	5061.8	21.3
40°-50°	3658.0	15.4
50°-60°	1997.3	8.4
60°-70°	825.8	3.5
70°-80°	334.5	1.4
80°-90°	91.0	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°	23754.0	100.0
0°-180°	23754.0	100.0



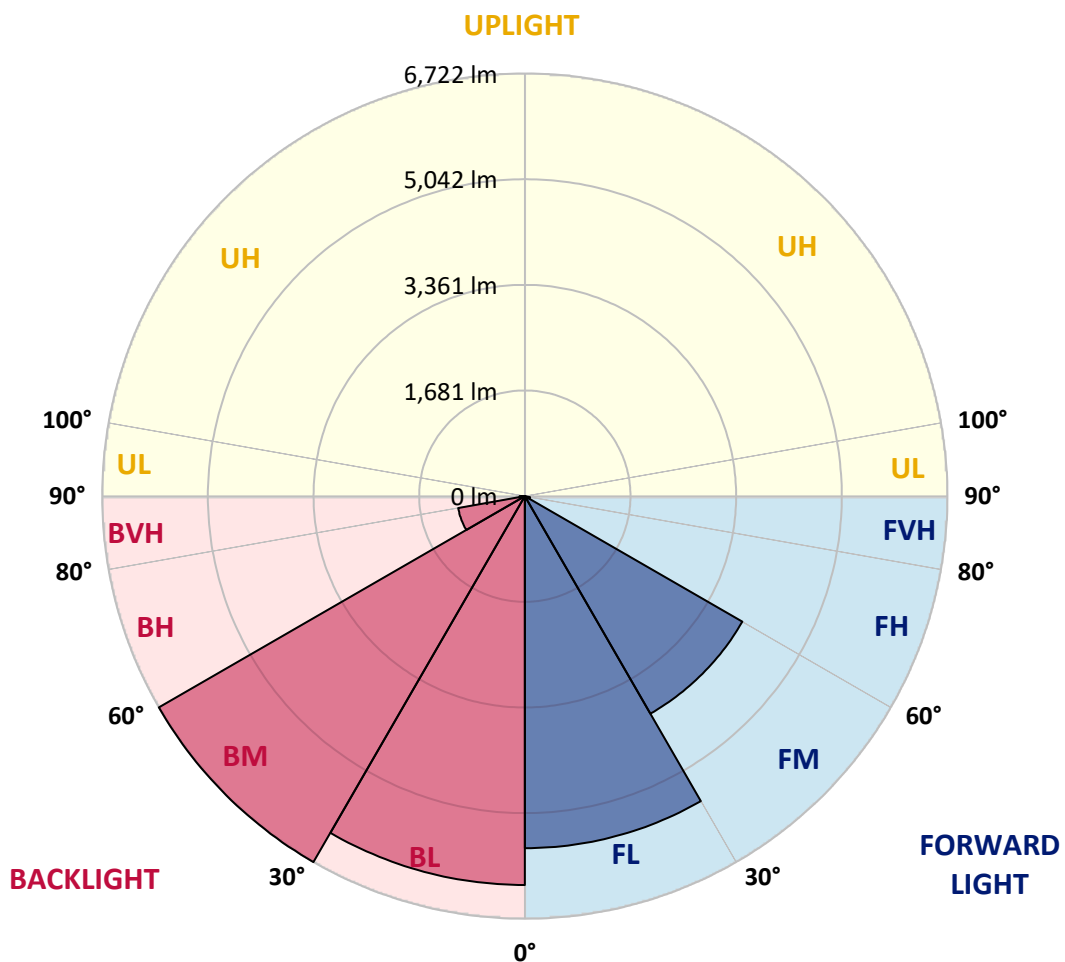
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5599.7	23.6			
FM (30°-60°)	3995.0	16.8			
FH (60°-80°)	83.7	0.4			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	6185.9	26.0	B5		
BM (30°-60°)	6722.2	28.3	B4/8500		
BH (60°-80°)	1076.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	83.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7
2.5°	18043.2	18066.7	17939.6	17952.9	17976.3	18146.9	18103.5	18063.3	18006.5	18103.5
5°	18019.8	18033.2	17899.4	17852.6	17872.7	18026.5	17886.0	17886.0	17872.7	17855.9
7.5°	17839.2	17845.9	17742.2	17658.6	17712.1	17782.3	17678.6	17728.8	17655.2	17712.1
10°	17568.3	17524.8	17401.0	17377.6	17437.8	17504.7	17434.4	17481.3	17414.4	17457.9
12.5°	17170.2	17103.3	17002.9	16972.8	17076.5	17166.8	17110.0	17083.2	16996.2	17103.3
15°	15634.8	15584.6	15812.1	16210.2	16568.1	16645.0	16584.8	16611.6	16430.9	16461.0
17.5°	12868.4	12774.8	13019.0	13962.3	15307.0	16016.1	15962.6	15788.7	15521.1	15581.3
20°	11694.3	11667.6	11640.8	11864.9	12804.9	14955.8	15029.4	14587.8	14206.5	14122.8
22.5°	11032.0	11022.0	10995.2	11045.4	11292.9	12674.4	13517.4	13109.3	12855.1	12831.6
25°	10426.5	10409.8	10329.5	10393.1	10393.1	10473.4	11553.8	11801.4	11577.2	11550.5
27.5°	9811.1	9781.0	9767.6	9797.7	9643.8	9101.9	9376.2	10583.8	10466.7	10473.4
30°	9145.4	9135.4	9098.6	9162.1	8687.1	8014.8	7840.8	9479.9	9503.3	9496.6
32.5°	8155.3	8198.7	8366.0	8436.2	7653.5	7098.2	6807.2	8202.1	8680.4	8670.4
35°	5924.1	5924.1	6469.3	7482.9	6706.8	6288.7	6131.5	6954.4	7867.6	7901.0
37.5°	4870.4	4887.1	4994.2	5455.8	5787.0	5639.8	5592.9	5853.9	6823.9	6877.4
40°	4382.0	4382.0	4382.0	4191.4	4181.3	5081.1	5054.4	4970.8	5894.0	6011.1
42.5°	3937.1	3947.2	3953.9	3472.2	3204.6	4392.1	4331.9	4204.7	5061.1	5198.2
45°	3478.9	3495.6	3515.7	2903.5	2786.4	3161.1	3666.2	3525.7	4238.2	4415.5
47.5°	2124.1	2150.9	2605.8	2462.0	2475.3	2438.5	2990.5	2967.1	3475.5	3726.4
50°	1435.0	1445.1	1488.6	1562.1	2124.1	1916.7	2117.4	2455.3	2639.3	3020.6
52.5°	1204.2	1220.9	1113.9	1013.6	1394.9	1498.6	1478.5	1823.1	1896.6	2368.3
55°	846.3	899.8	849.6	839.6	792.8	1164.1	1120.6	1401.6	1448.4	1799.6
57.5°	87.0	100.4	173.9	625.5	518.5	659.0	799.5	1026.9	1073.8	1328.0
60°	6.7	6.7	16.7	87.0	378.0	394.7	551.9	632.2	722.5	926.6
62.5°	0.0	3.3	6.7	13.4	60.2	210.7	277.6	331.2	434.9	598.8
65°	0.0	0.0	3.3	10.0	13.4	80.3	107.0	173.9	237.5	371.3
67.5°	0.0	0.0	3.3	6.7	10.0	20.1	36.8	63.6	127.1	210.7
70°	0.0	0.0	3.3	6.7	10.0	16.7	26.8	40.1	56.9	113.7
72.5°	0.0	0.0	3.3	3.3	6.7	16.7	20.1	26.8	40.1	56.9
75°	0.0	0.0	3.3	3.3	10.0	20.1	16.7	20.1	26.8	36.8
77.5°	0.0	0.0	3.3	6.7	10.0	20.1	16.7	20.1	20.1	23.4
80°	0.0	0.0	3.3	6.7	13.4	23.4	20.1	20.1	16.7	16.7
82.5°	0.0	0.0	3.3	10.0	13.4	30.1	30.1	26.8	13.4	10.0
85°	0.0	0.0	6.7	13.4	20.1	33.5	33.5	26.8	10.0	6.7
87.5°	0.0	0.0	6.7	10.0	16.7	23.4	33.5	26.8	10.0	3.3
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°
18076.7	0°	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7	18076.7
18019.8	2.5°	18110.2	18090.1	18157.0	18183.7	18220.5	18080.0	17993.1	17996.4	17835.9
17815.8	5°	17922.8	17926.2	18013.1	18006.5	18043.2	17966.3	17932.9	17876.0	17735.5
17558.2	7.5°	17685.3	17655.2	17738.8	17802.4	17708.7	17762.3	17685.3	17712.1	17628.5
17330.8	10°	17501.3	17431.1	17508.0	17551.5	17554.9	17501.3	17427.8	17357.5	17327.4
16976.2	12.5°	17093.3	17002.9	17133.4	17193.6	17183.6	17079.9	16996.2	17013.0	16916.0
16354.0	15°	16531.3	16534.6	16628.3	16685.2	16631.6	16608.2	16614.9	16574.8	16491.1
15494.3	17.5°	15671.6	15721.8	15969.3	16106.5	16136.6	16089.7	16066.3	16019.5	15935.9
14122.8	20°	14239.9	14541.0	14982.5	15407.3	15491.0	15477.6	15394.0	15373.9	15327.1
12764.7	22.5°	12982.2	13206.3	13718.1	14380.4	14721.6	14755.1	14654.7	14624.6	14574.4
11550.5	25°	11680.9	11921.8	12383.4	13102.6	13808.4	13952.2	13935.5	13845.2	13791.7
10473.4	27.5°	10583.8	10824.6	11242.7	11891.7	12647.7	13109.3	13152.8	13008.9	13005.6
9513.3	30°	9593.6	9924.8	10242.6	10771.1	11503.7	12196.1	12269.7	12169.3	12179.4
8633.6	32.5°	8817.6	9091.9	9362.8	9717.4	10326.2	11132.4	11420.0	11326.4	11289.6
7901.0	35°	8024.8	8212.1	8489.8	8814.2	9229.0	10028.5	10526.9	10456.7	10419.9
6910.9	37.5°	7121.6	7442.8	7643.5	8008.1	8332.5	8968.1	9670.6	9660.5	9583.6
6067.9	40°	6195.0	6532.9	6837.3	7205.3	7456.1	7961.2	8740.6	8737.3	8747.3
5194.9	42.5°	5355.4	5666.5	6034.5	6435.9	6676.7	7044.7	7881.0	7927.8	7984.7
4475.7	45°	4596.1	4877.1	5218.3	5706.7	5997.7	6208.4	6951.0	7165.1	7161.8
3833.4	47.5°	3913.7	4178.0	4465.7	4940.7	5312.0	5502.6	6118.1	6422.5	6402.4
3144.4	50°	3284.8	3519.0	3820.1	4164.6	4663.0	4830.3	5288.5	5689.9	5659.8
2505.4	52.5°	2642.6	2967.1	3221.3	3535.7	4060.9	4224.8	4579.4	4970.8	4947.3
1879.9	55°	2060.6	2375.0	2682.7	2953.7	3395.2	3639.4	3893.6	4295.1	4288.4
1471.8	57.5°	1558.8	1903.3	2194.4	2451.9	2803.2	3104.2	3308.3	3672.9	3719.7
1006.9	60°	1154.0	1418.3	1732.7	2020.4	2298.1	2609.1	2746.3	3104.2	3124.3
689.1	62.5°	786.1	1077.1	1384.9	1645.8	1853.2	2174.3	2298.1	2592.4	2629.2
441.5	65°	545.2	732.6	1083.8	1271.1	1525.3	1799.6	1923.4	2157.6	2231.2
254.2	67.5°	361.3	521.8	846.3	1016.9	1267.8	1455.1	1612.3	1803.0	1883.3
160.6	70°	197.4	384.7	605.5	802.8	1020.2	1200.9	1354.7	1508.6	1578.9
73.6	72.5°	133.8	257.6	421.5	635.6	822.9	1000.2	1137.3	1251.1	1254.4
43.5	75°	66.9	173.9	321.1	491.7	642.3	816.2	940.0	1006.9	926.6
26.8	77.5°	40.1	127.1	260.9	394.7	521.8	659.0	729.2	766.0	635.6
20.1	80°	23.4	90.3	204.0	314.4	361.3	485.0	551.9	562.0	424.8
13.4	82.5°	16.7	66.9	160.6	230.8	220.8	341.2	414.8	401.4	270.9
10.0	85°	10.0	46.8	100.4	143.8	133.8	224.1	240.8	247.5	157.2
6.7	87.5°	6.7	26.8	53.5	76.9	63.6	97.0	97.0	117.1	76.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

18076.7
17628.5
17702.1
17488.0
17193.6
16832.3
16407.5
15899.1
15220.0
14561.0
13734.8
12998.9
12129.2
11292.9
10369.7
9647.2
8747.3
7954.6
7168.5
6409.1
5686.6
4997.5
4305.1
3699.6
3154.4
2635.9
2214.4
1873.2
1552.1
1224.3
866.4
612.1
398.1
250.9
143.8
66.9
0.0

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