

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: P636817

Luminaire Tested: **IFLD-L-SA7C-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24639.6 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

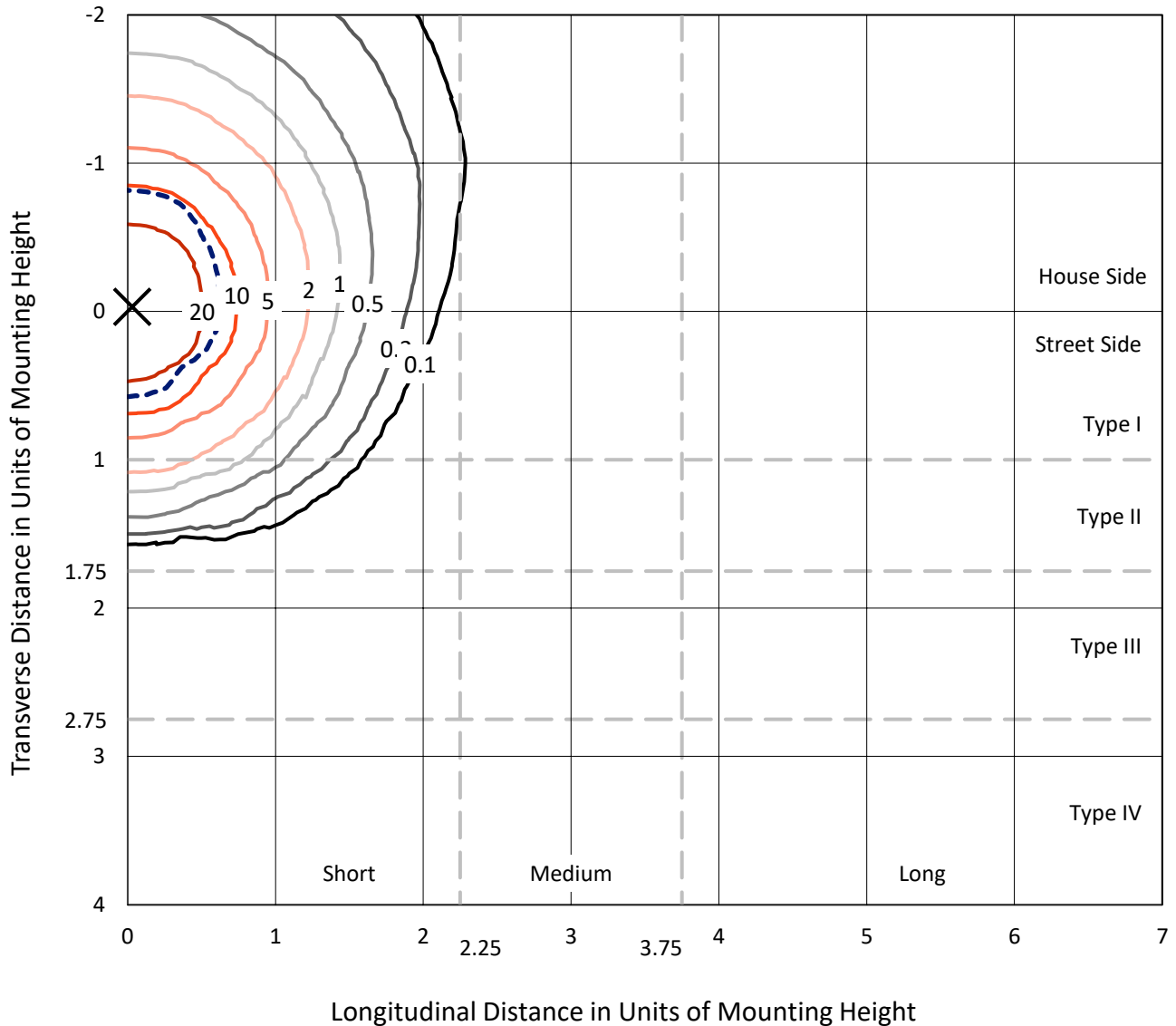
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

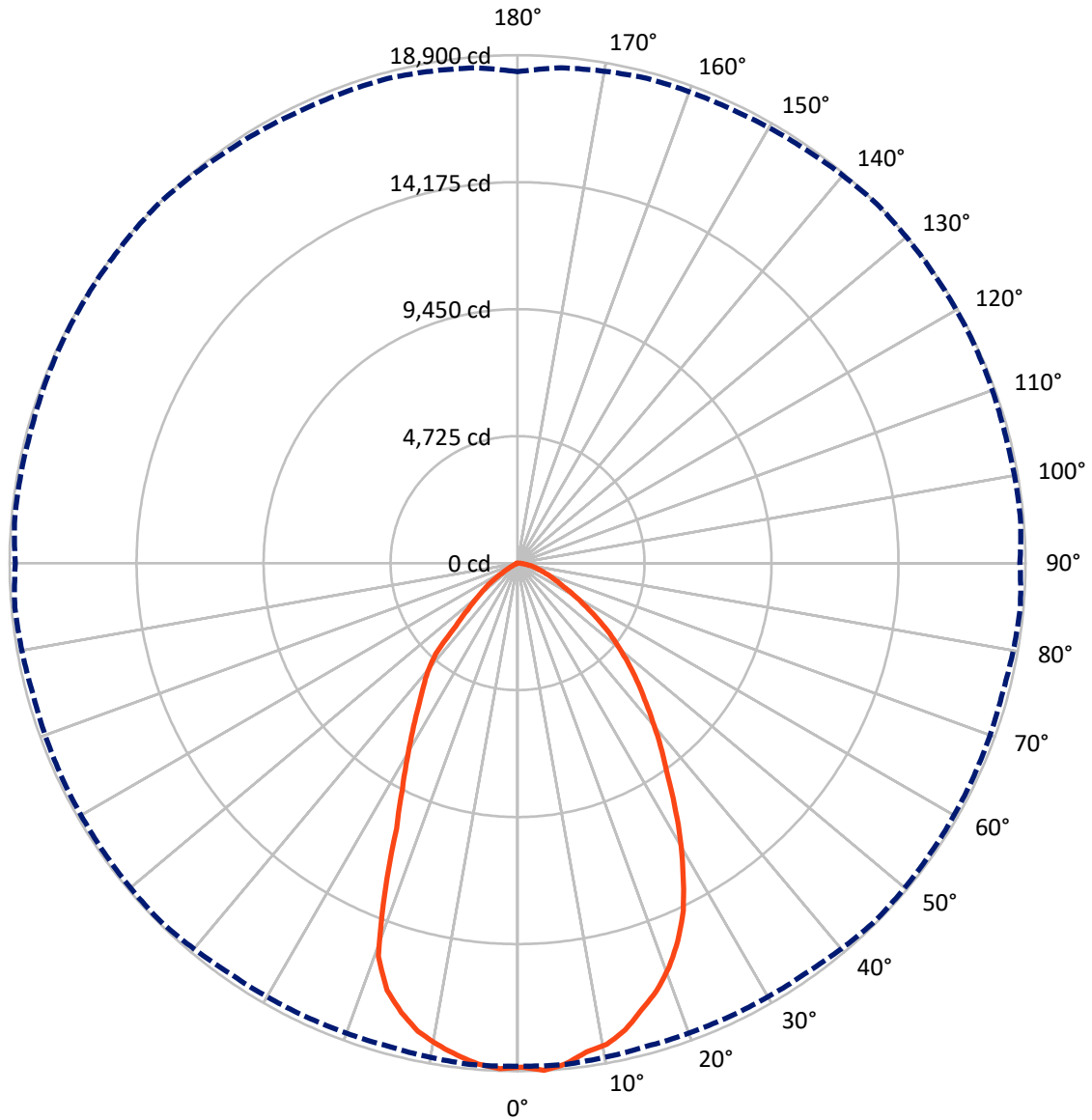
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.9 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	14592.9	0.0	14592.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10046.8	0.0	10046.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	24639.6	0.0	24639.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1758.5	7.1
10°-20°	4715.6	19.1
20°-30°	5750.9	23.3
30°-40°	5250.5	21.3
40°-50°	3794.4	15.4
50°-60°	2071.8	8.4
60°-70°	856.6	3.5
70°-80°	346.9	1.4
80°-90°	94.4	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°	24639.6	100.0
0°-180°	24639.6	100.0



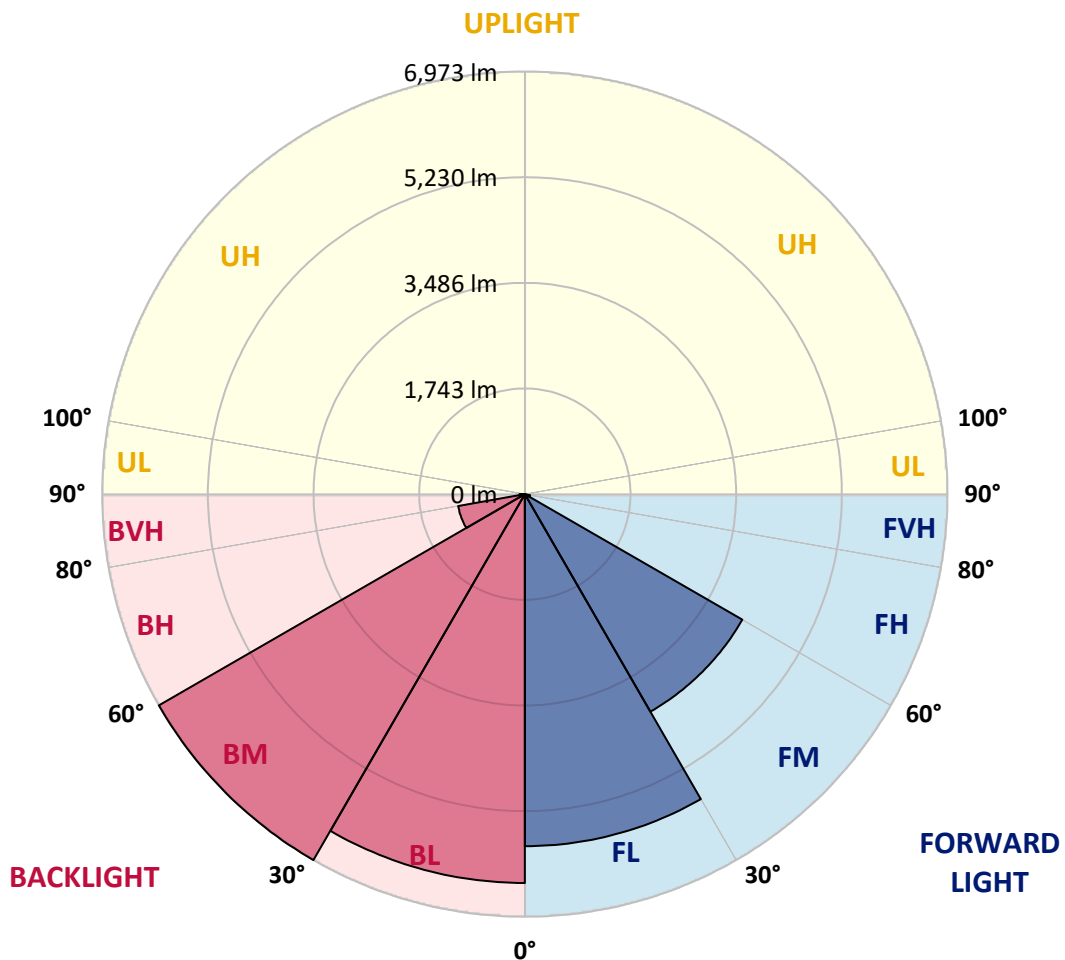
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5808.5	23.6			
FM (30°-60°)	4143.9	16.8			
FH (60°-80°)	86.8	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6416.5	26.0	B5		
BM (30°-60°)	6972.8	28.3	B4/8500		
BH (60°-80°)	1116.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.8	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°	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7
2.5°	18716.0	18740.3	18608.4	18622.3	18646.6	18823.6	18778.5	18736.8	18677.8	18778.5
5°	18691.7	18705.6	18566.8	18518.2	18539.0	18698.6	18552.9	18552.9	18539.0	18521.7
7.5°	18504.3	18511.3	18403.7	18317.0	18372.5	18445.4	18337.8	18389.8	18313.5	18372.5
10°	18223.3	18178.2	18049.8	18025.5	18088.0	18157.4	18084.5	18133.1	18063.7	18108.8
12.5°	17810.4	17741.0	17636.9	17605.7	17713.2	17806.9	17747.9	17720.2	17630.0	17741.0
15°	16217.8	16165.7	16401.7	16814.6	17185.8	17265.6	17203.2	17230.9	17043.6	17074.8
17.5°	13348.2	13251.1	13504.4	14482.9	15877.7	16613.3	16557.8	16377.4	16099.8	16162.2
20°	12130.4	12102.6	12074.8	12307.3	13282.3	15513.4	15589.7	15131.7	14736.2	14649.4
22.5°	11443.3	11432.9	11405.2	11457.2	11714.0	13147.0	14021.4	13598.1	13334.4	13310.1
25°	10815.3	10798.0	10714.7	10780.6	10780.6	10863.9	11984.6	12241.4	12008.9	11981.2
27.5°	10176.9	10145.6	10131.8	10163.0	10003.4	9441.3	9725.8	10978.4	10856.9	10863.9
30°	9486.4	9476.0	9437.8	9503.7	9011.0	8313.6	8133.2	9833.4	9857.6	9850.7
32.5°	8459.3	8504.4	8677.9	8750.8	7938.9	7362.9	7061.0	8507.9	9004.1	8993.7
35°	6145.0	6145.0	6710.6	7761.9	6956.9	6523.2	6360.1	7213.7	8160.9	8195.6
37.5°	5052.0	5069.3	5180.4	5659.2	6002.7	5850.1	5801.5	6072.1	7078.4	7133.9
40°	4545.4	4545.4	4545.4	4347.6	4337.2	5270.6	5242.8	5156.1	6113.8	6235.2
42.5°	4083.9	4094.3	4101.3	3601.6	3324.0	4555.8	4493.4	4361.5	5249.8	5392.0
45°	3608.6	3625.9	3646.7	3011.8	2890.3	3278.9	3802.9	3657.1	4396.2	4580.1
47.5°	2203.3	2231.1	2703.0	2553.8	2567.6	2529.5	3102.0	3077.7	3605.1	3865.3
50°	1488.5	1498.9	1544.1	1620.4	2203.3	1988.2	2196.4	2546.8	2737.7	3133.2
52.5°	1249.1	1266.5	1155.4	1051.3	1446.9	1554.5	1533.6	1891.0	1967.4	2456.6
55°	877.9	933.4	881.3	870.9	822.3	1207.5	1162.4	1453.8	1502.4	1866.7
57.5°	90.2	104.1	180.4	648.8	537.8	683.5	829.3	1065.2	1113.8	1377.5
60°	6.9	6.9	17.3	90.2	392.1	409.4	572.5	655.8	749.5	961.1
62.5°	0.0	3.5	6.9	13.9	62.5	218.6	288.0	343.5	451.1	621.1
65°	0.0	0.0	3.5	10.4	13.9	83.3	111.0	180.4	246.4	385.1
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	38.2	65.9	131.9	218.6
70°	0.0	0.0	3.5	6.9	10.4	17.3	27.8	41.6	59.0	118.0
72.5°	0.0	0.0	3.5	3.5	6.9	17.3	20.8	27.8	41.6	59.0
75°	0.0	0.0	3.5	3.5	10.4	20.8	17.3	20.8	27.8	38.2
77.5°	0.0	0.0	3.5	6.9	10.4	20.8	17.3	20.8	20.8	24.3
80°	0.0	0.0	3.5	6.9	13.9	24.3	20.8	20.8	17.3	17.3
82.5°	0.0	0.0	3.5	10.4	13.9	31.2	31.2	27.8	13.9	10.4
85°	0.0	0.0	6.9	13.9	20.8	34.7	34.7	27.8	10.4	6.9
87.5°	0.0	0.0	6.9	10.4	17.3	24.3	34.7	27.8	10.4	3.5
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°
18750.7	0°	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7	18750.7
18691.7	2.5°	18785.4	18764.6	18834.0	18861.7	18899.9	18754.2	18664.0	18667.4	18500.9
18480.1	5°	18591.1	18594.6	18684.8	18677.8	18716.0	18636.2	18601.5	18542.5	18396.8
18212.9	7.5°	18344.7	18313.5	18400.2	18466.2	18369.0	18424.5	18344.7	18372.5	18285.7
17976.9	10°	18153.9	18081.0	18160.8	18205.9	18209.4	18153.9	18077.6	18004.7	17973.5
17609.1	12.5°	17730.6	17636.9	17772.2	17834.7	17824.3	17716.7	17630.0	17647.3	17546.7
16963.8	15°	17147.7	17151.1	17248.3	17307.3	17251.7	17227.5	17234.4	17192.8	17106.0
16072.0	17.5°	16255.9	16308.0	16564.7	16707.0	16738.2	16689.6	16665.4	16616.8	16530.0
14649.4	20°	14770.9	15083.1	15541.1	15981.8	16068.6	16054.7	15967.9	15947.1	15898.5
13240.7	22.5°	13466.2	13698.7	14229.6	14916.6	15270.5	15305.2	15201.1	15169.9	15117.8
11981.2	25°	12116.5	12366.3	12845.1	13591.1	14323.3	14472.5	14455.1	14361.4	14305.9
10863.9	27.5°	10978.4	11228.2	11661.9	12335.1	13119.2	13598.1	13643.2	13494.0	13490.5
9868.1	30°	9951.3	10294.8	10624.5	11172.7	11932.6	12650.8	12727.2	12623.1	12633.5
8955.5	32.5°	9146.3	9430.9	9711.9	10079.7	10711.2	11547.4	11845.8	11748.7	11710.5
8195.6	35°	8324.0	8518.3	8806.3	9142.9	9573.1	10402.4	10919.4	10846.5	10808.4
7168.6	37.5°	7387.2	7720.3	7928.4	8306.7	8643.2	9302.5	10031.1	10020.7	9940.9
6294.2	40°	6426.0	6776.5	7092.2	7473.9	7734.1	8258.1	9066.5	9063.1	9073.5
5388.6	42.5°	5555.1	5877.8	6259.5	6675.9	6925.7	7307.4	8174.8	8223.4	8282.4
4642.6	45°	4767.5	5058.9	5412.9	5919.4	6221.3	6439.9	7210.2	7432.3	7428.8
3976.4	47.5°	4059.6	4333.8	4632.2	5124.9	5510.0	5707.8	6346.2	6662.0	6641.2
3261.6	50°	3407.3	3650.2	3962.5	4319.9	4836.9	5010.4	5485.7	5902.1	5870.9
2598.9	52.5°	2741.1	3077.7	3341.4	3667.6	4212.3	4382.3	4750.1	5156.1	5131.8
1950.0	55°	2137.4	2463.5	2782.8	3063.8	3521.8	3775.1	4038.8	4455.2	4448.3
1526.7	57.5°	1616.9	1974.3	2276.2	2543.3	2907.7	3220.0	3431.6	3809.8	3858.4
1044.4	60°	1197.1	1471.2	1797.3	2095.7	2383.7	2706.4	2848.7	3220.0	3240.8
714.8	62.5°	815.4	1117.3	1436.5	1707.1	1922.3	2255.4	2383.7	2689.1	2727.2
458.0	65°	565.6	759.9	1124.2	1318.5	1582.2	1866.7	1995.1	2238.0	2314.3
263.7	67.5°	374.7	541.3	877.9	1054.8	1315.0	1509.4	1672.4	1870.2	1953.5
166.5	70°	204.7	399.0	628.0	832.7	1058.3	1245.7	1405.3	1564.9	1637.7
76.3	72.5°	138.8	267.2	437.2	659.3	853.6	1037.5	1179.7	1297.7	1301.2
45.1	75°	69.4	180.4	333.1	510.1	666.2	846.6	975.0	1044.4	961.1
27.8	77.5°	41.6	131.9	270.6	409.4	541.3	683.5	756.4	794.6	659.3
20.8	80°	24.3	93.7	211.7	326.2	374.7	503.1	572.5	582.9	440.7
13.9	82.5°	17.3	69.4	166.5	239.4	229.0	353.9	430.3	416.4	281.1
10.4	85°	10.4	48.6	104.1	149.2	138.8	232.5	249.8	256.8	163.1
6.9	87.5°	6.9	27.8	55.5	79.8	65.9	100.6	100.6	121.4	79.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18750.7
18285.7
18362.1
18140.0
17834.7
17459.9
17019.3
16491.9
15787.5
15104.0
14246.9
13483.6
12581.4
11714.0
10756.3
10006.8
9073.5
8251.1
7435.7
6648.1
5898.6
5183.9
4465.6
3837.6
3272.0
2734.2
2297.0
1943.1
1610.0
1269.9
898.7
635.0
412.9
260.2
149.2
69.4
0.0

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