

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: P637859

Luminaire Tested: **IFLD-L-SA7A-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637859
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24033.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

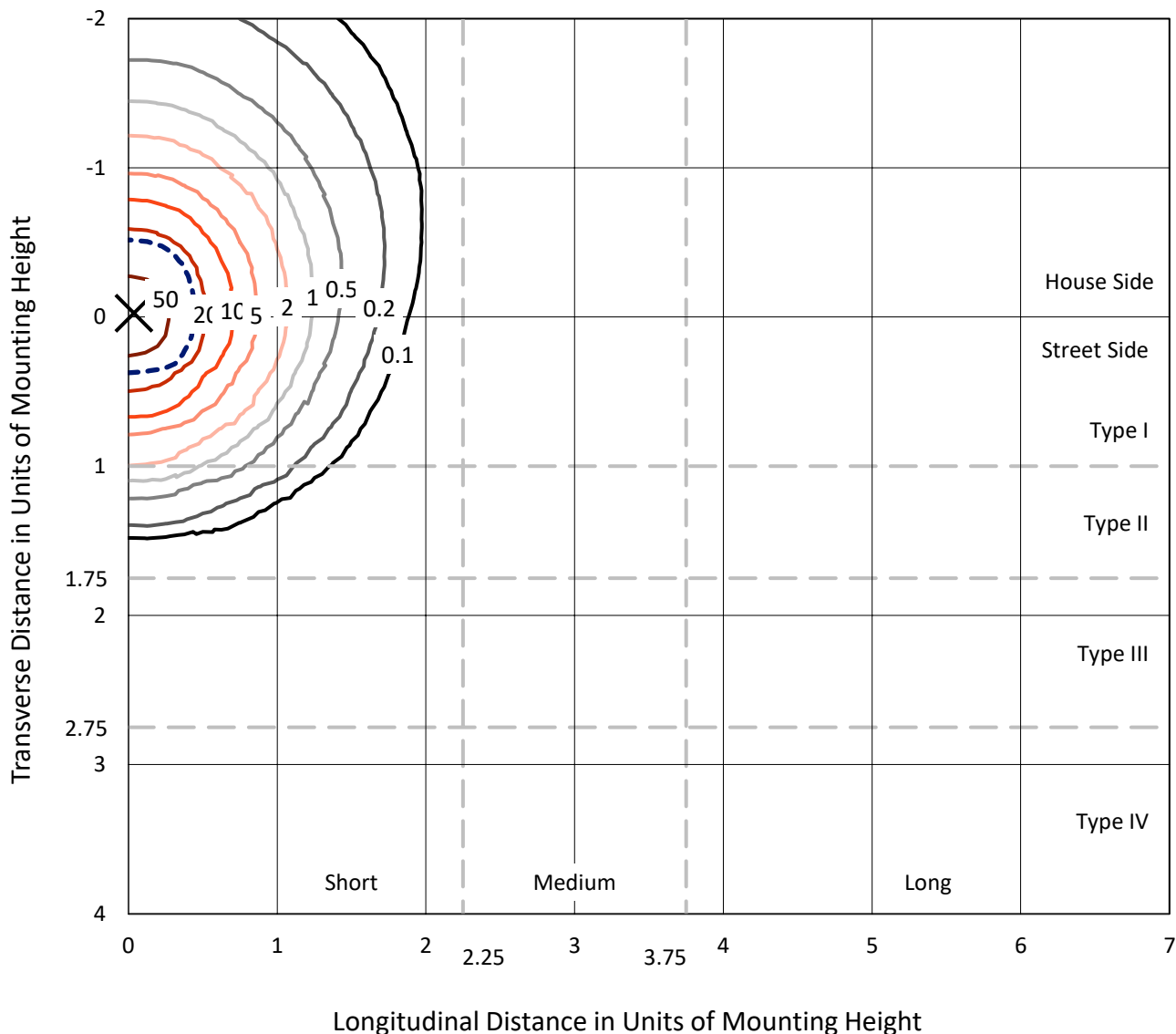
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

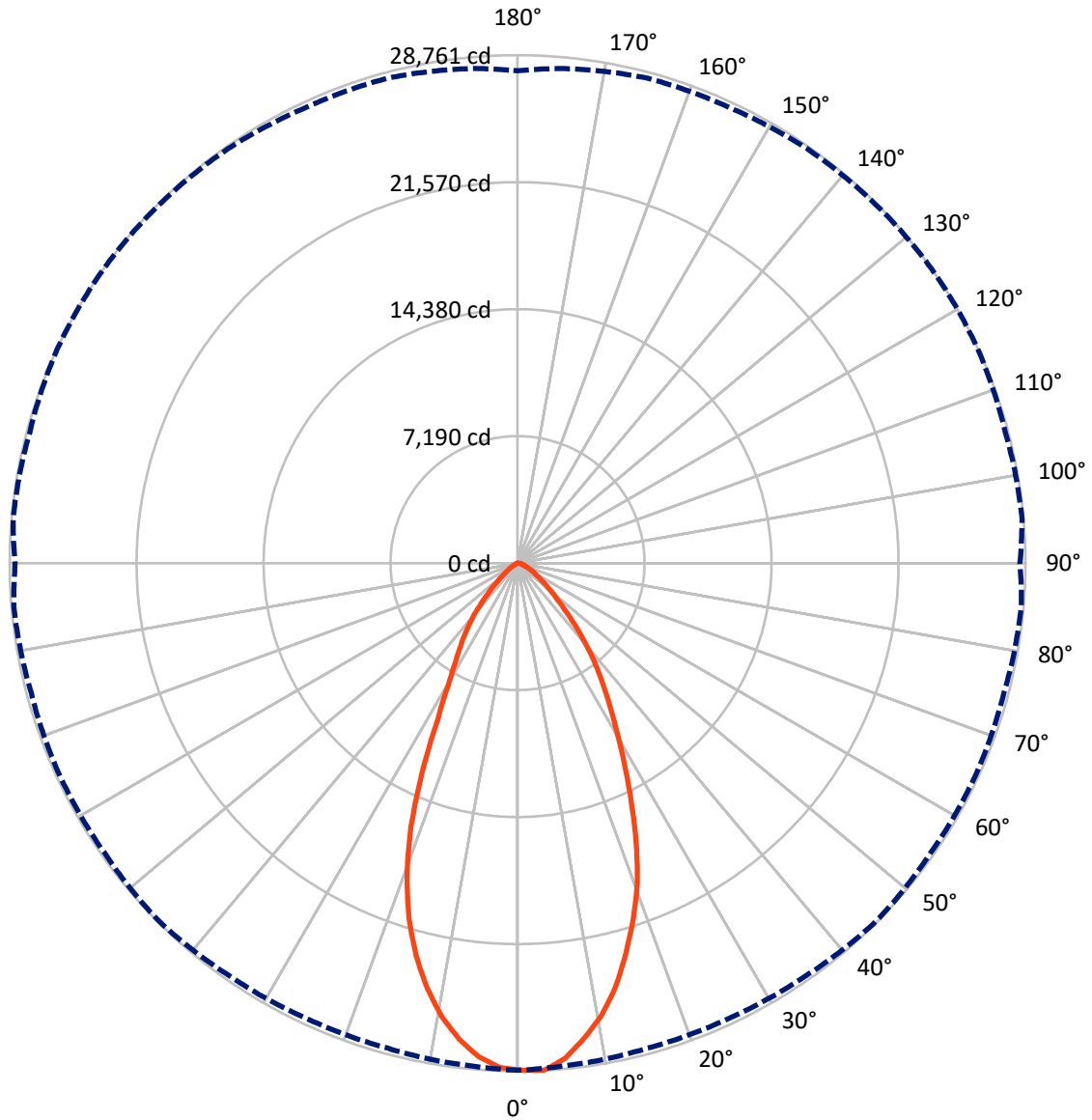
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.8 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	13637.5	0.0	13637.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10395.9	0.0	10395.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	24033.4	0.0	24033.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2607.4	10.8
10°-20°	6215.3	25.9
20°-30°	6330.2	26.3
30°-40°	4720.4	19.6
40°-50°	2466.1	10.3
50°-60°	1037.2	4.3
60°-70°	423.6	1.8
70°-80°	178.3	0.7
80°-90°	54.9	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°	24033.4	100.0
0°-180°	24033.4	100.0



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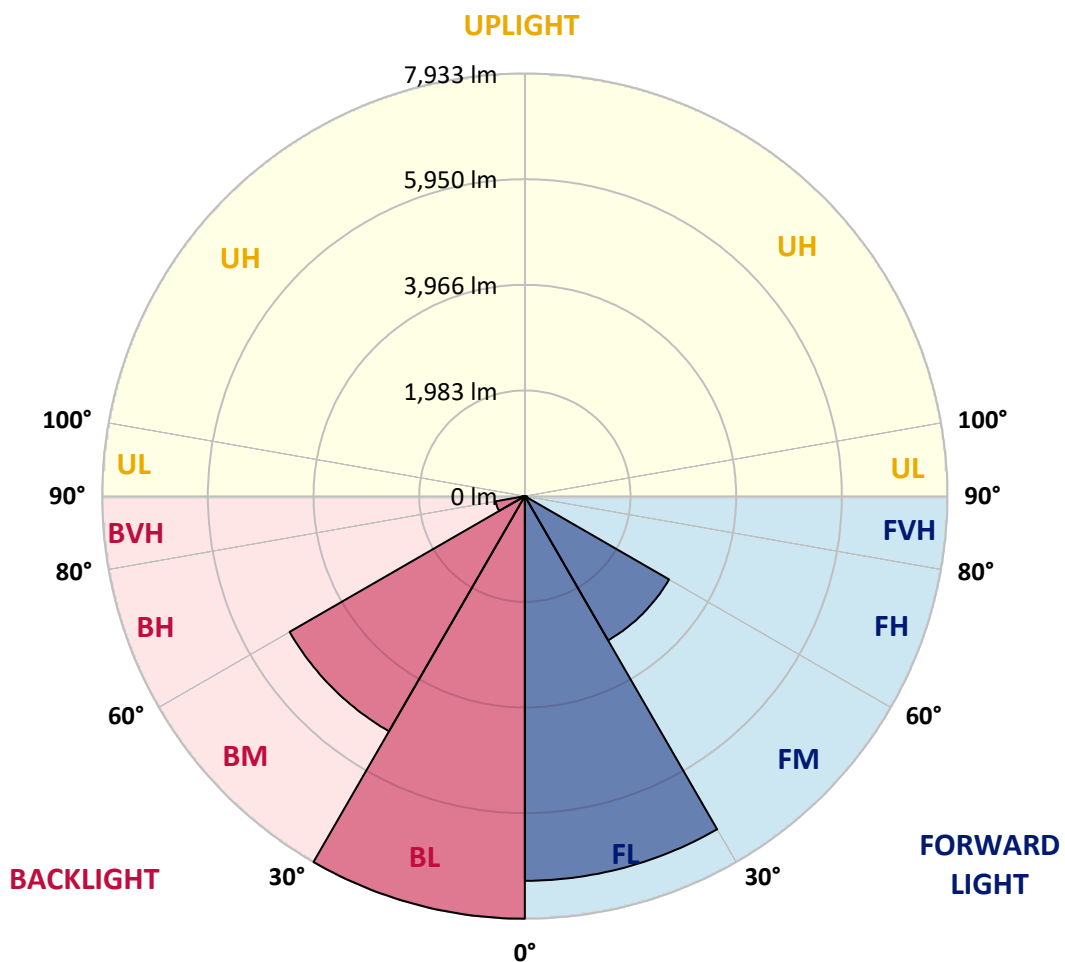
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7219.9	30.0			
FM (30°-60°)	3125.6	13.0			
FH (60°-80°)	45.2	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7933.0	33.0	B5		
BM (30°-60°)	5098.1	21.2	B4/8500		
BH (60°-80°)	556.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	49.8	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2
2.5°	28717.2	28599.9	28433.2	28417.8	28504.2	28692.5	28572.1	28578.3	28504.2	28630.8
5°	28266.5	28155.4	28041.1	27889.9	28016.4	28096.7	28035.0	27967.1	27871.3	27994.8
7.5°	27414.4	27352.7	27182.9	27115.0	27192.2	27281.7	27148.9	27130.4	26997.7	27158.2
10°	26111.6	26086.9	25920.2	25880.1	25948.0	26083.9	26025.2	26012.8	25929.5	25914.1
12.5°	24759.4	24663.7	24456.9	24444.5	24546.4	24750.2	24592.7	24441.5	24487.8	24527.9
15°	21277.1	21175.2	21687.7	22493.4	22916.4	22900.9	22947.2	22765.1	22709.5	22728.1
17.5°	16914.8	16741.9	16927.2	18174.4	20184.2	21351.2	21030.1	20638.0	20428.1	20289.2
20°	14599.4	14608.7	14574.7	14895.8	16149.2	18810.4	18733.2	17976.8	17702.1	17587.8
22.5°	13191.7	13139.2	13065.1	13167.0	13503.5	15065.6	16112.2	15417.5	15321.8	15195.3
25°	11811.7	11811.7	11722.1	11824.0	11919.7	11941.3	12991.0	13275.0	13089.8	13089.8
27.5°	10616.9	10555.2	10515.0	10561.4	10434.8	9826.6	9959.3	11413.4	11286.8	11209.7
30°	9431.4	9412.9	9345.0	9406.7	8937.5	8252.1	7974.3	9632.1	9764.9	9737.1
32.5°	7785.9	7860.0	8162.6	8258.3	7455.6	6903.0	6637.5	7995.9	8526.9	8505.3
35°	5291.5	5353.2	5699.0	6841.3	6180.6	5785.4	5708.3	6359.7	7233.3	7316.7
37.5°	4214.0	4204.8	4303.6	4507.3	4967.3	4871.6	4850.0	5019.8	5899.7	5936.7
40°	3473.1	3460.8	3457.7	3291.0	3176.7	4050.4	3991.8	3889.9	4652.4	4726.5
42.5°	2800.1	2812.4	2821.7	2457.4	2290.7	3124.3	3090.3	2985.3	3649.1	3735.5
45°	2198.1	2195.0	2213.5	1830.7	1784.4	1997.4	2309.2	2225.9	2753.8	2846.4
47.5°	1139.2	1179.3	1429.4	1417.0	1438.6	1417.0	1747.4	1725.8	2071.5	2219.7
50°	765.6	778.0	799.6	802.7	1133.0	1043.5	1185.5	1342.9	1451.0	1679.4
52.5°	592.7	602.0	546.4	512.5	694.6	771.8	778.0	929.3	1012.6	1244.1
55°	330.3	370.5	398.3	401.3	382.8	571.1	568.0	688.4	753.3	907.6
57.5°	43.2	52.5	80.3	259.3	256.2	318.0	398.3	500.1	537.2	663.8
60°	3.1	6.2	9.3	40.1	169.8	185.2	271.7	311.8	373.6	466.2
62.5°	0.0	0.0	3.1	9.3	34.0	108.1	142.0	163.6	219.2	305.6
65°	0.0	0.0	3.1	6.2	12.3	40.1	55.6	89.5	129.7	188.3
67.5°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	40.1	67.9	114.2
70°	0.0	0.0	3.1	6.2	9.3	12.3	18.5	24.7	37.0	61.7
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	15.4	18.5	24.7	34.0
75°	0.0	0.0	3.1	6.2	9.3	15.4	15.4	15.4	18.5	21.6
77.5°	0.0	0.0	3.1	6.2	9.3	15.4	12.3	15.4	15.4	15.4
80°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	15.4	12.3	12.3
82.5°	0.0	0.0	3.1	9.3	9.3	21.6	21.6	21.6	9.3	9.3
85°	0.0	0.0	6.2	9.3	15.4	24.7	24.7	18.5	9.3	6.2
87.5°	0.0	0.0	3.1	6.2	6.2	12.3	18.5	15.4	6.2	3.1
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°
28714.2	0°	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2	28714.2
28445.6	2.5°	28674.0	28596.8	28741.9	28760.5	28698.7	28621.5	28442.5	28427.0	28115.2
27815.8	5°	28130.7	28004.1	28096.7	28158.5	28136.8	28053.5	27979.4	27911.5	27630.5
26793.9	7.5°	27118.1	27071.8	27115.0	27161.3	27250.8	27161.3	27130.4	27059.4	26781.6
25787.5	10°	25994.3	25907.9	26071.5	26049.9	26025.2	26000.5	25870.8	25883.2	25555.9
24416.8	12.5°	24614.3	24469.2	24626.7	24645.2	24626.7	24540.2	24395.1	24456.9	24157.4
22564.4	15°	22758.9	22743.5	22857.7	22931.8	22984.3	22891.7	22842.3	22873.2	22694.1
20181.1	17.5°	20480.6	20681.2	21054.8	21181.4	21184.4	21280.2	21252.4	21215.3	21082.6
17541.5	20°	17800.9	18186.8	18761.0	19350.6	19520.4	19440.2	19403.1	19471.0	19273.5
15062.5	22.5°	15328.0	15658.3	16325.2	17186.5	17683.5	17732.9	17723.7	17665.0	17587.8
13077.4	25°	13228.7	13522.0	14161.0	14948.3	15902.2	16044.2	16050.4	16031.9	15964.0
11277.6	27.5°	11456.6	11811.7	12163.6	12867.5	13883.2	14469.8	14395.7	14374.1	14349.4
9758.7	30°	9851.3	10298.9	10629.3	11067.7	11978.4	12771.8	12849.0	12811.9	12753.3
8502.2	32.5°	8579.4	8844.9	9264.7	9561.1	10215.6	11114.0	11410.3	11382.5	11330.1
7369.2	35°	7474.1	7579.1	7909.4	8239.8	8675.1	9545.7	9984.0	9922.3	9913.0
6004.6	37.5°	6155.9	6507.8	6690.0	7023.4	7329.0	8005.1	8610.2	8582.4	8585.5
4828.4	40°	4970.4	5174.2	5535.4	5816.3	6097.2	6591.2	7264.2	7282.7	7276.6
3738.6	42.5°	3815.8	4013.4	4393.1	4698.7	4948.8	5254.4	5896.6	5918.2	5946.0
2911.2	45°	2979.2	3105.7	3383.6	3701.6	3967.1	4152.3	4640.1	4779.0	4782.1
2256.8	47.5°	2312.3	2457.4	2655.0	2960.6	3220.0	3352.7	3707.7	3896.1	3886.8
1731.9	50°	1815.3	1948.0	2108.6	2349.4	2630.3	2735.3	2997.7	3182.9	3173.7
1305.9	52.5°	1389.2	1559.0	1701.1	1886.3	2161.0	2250.6	2438.9	2651.9	2621.0
957.0	55°	1052.7	1225.6	1358.4	1512.7	1762.8	1877.0	2006.7	2176.5	2182.7
740.9	57.5°	793.4	972.5	1092.9	1250.3	1438.6	1565.2	1664.0	1846.2	1843.1
506.3	60°	568.0	722.4	867.5	1031.1	1176.2	1321.3	1389.2	1562.1	1568.3
358.1	62.5°	410.6	555.7	694.6	836.6	966.3	1108.3	1170.1	1305.9	1324.4
234.6	65°	287.1	389.0	549.5	657.6	802.7	907.6	987.9	1105.2	1126.8
138.9	67.5°	185.2	280.9	435.3	531.0	663.8	753.3	836.6	929.3	957.0
89.5	70°	111.1	213.0	324.2	426.0	546.4	626.7	707.0	787.2	802.7
43.2	72.5°	71.0	148.2	234.6	345.8	438.4	524.8	595.8	654.5	608.2
27.8	75°	40.1	101.9	185.2	271.7	355.0	438.4	497.0	527.9	422.9
18.5	77.5°	24.7	74.1	151.3	219.2	274.8	351.9	389.0	407.5	302.5
12.3	80°	15.4	55.6	126.6	179.1	179.1	259.3	302.5	318.0	219.2
9.3	82.5°	12.3	40.1	98.8	135.8	120.4	194.5	237.7	240.8	154.4
6.2	85°	9.3	30.9	61.7	89.5	83.4	135.8	138.9	154.4	101.9
6.2	87.5°	6.2	18.5	37.0	52.5	46.3	64.8	74.1	83.4	55.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28714.2
27871.3
27405.2
26722.9
25444.8
24071.0
22478.0
20885.0
19131.5
17439.7
15735.5
14204.3
12679.2
11191.1
9811.2
8486.7
7168.5
5853.4
4701.8
3852.8
3173.7
2624.1
2182.7
1836.9
1552.9
1318.2
1120.7
953.9
790.3
565.0
401.3
284.0
203.8
142.0
92.6
49.4
0.0

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