

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: P638082

Luminaire Tested: **IFLD-S-SA6B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21472.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

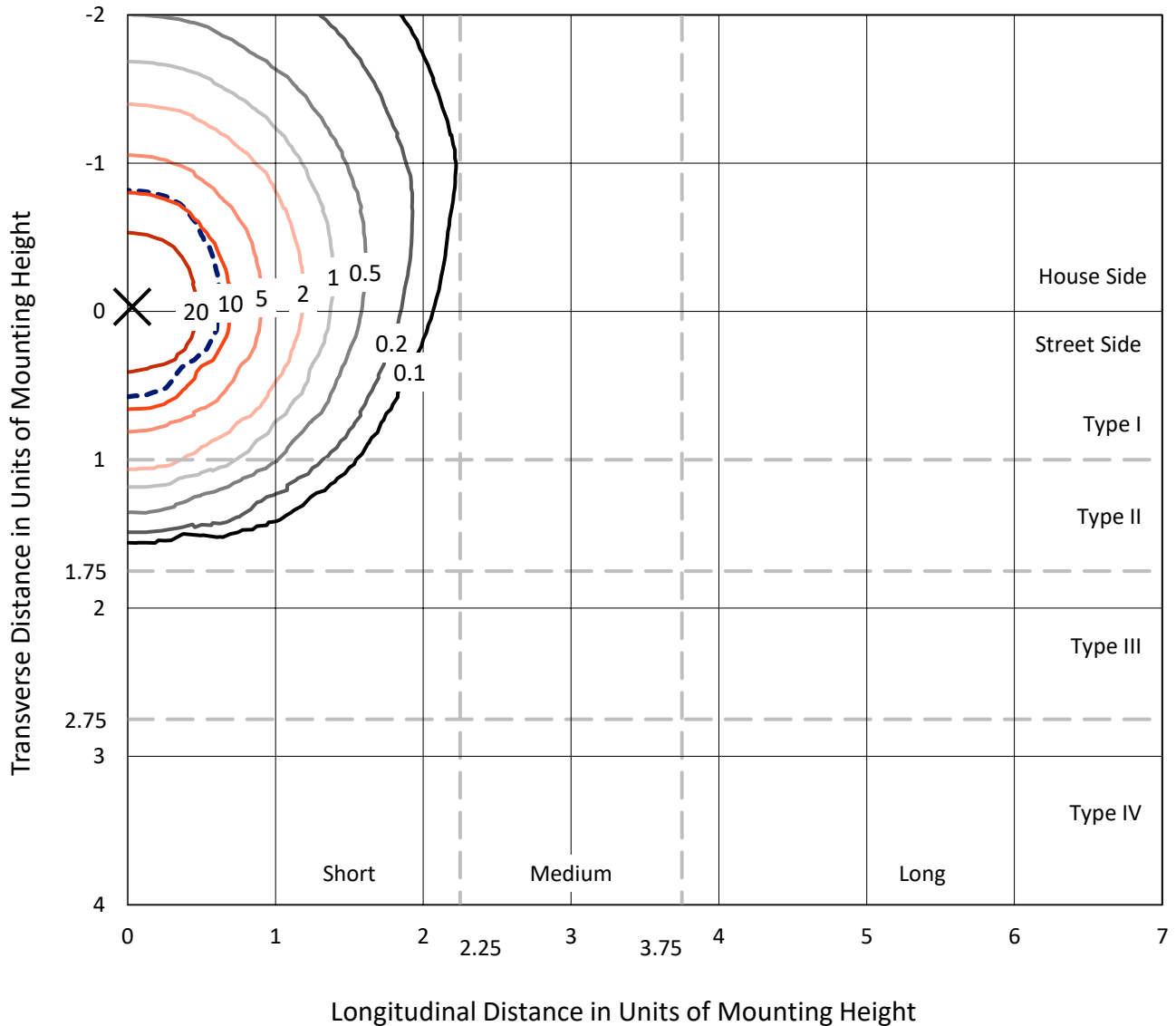
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

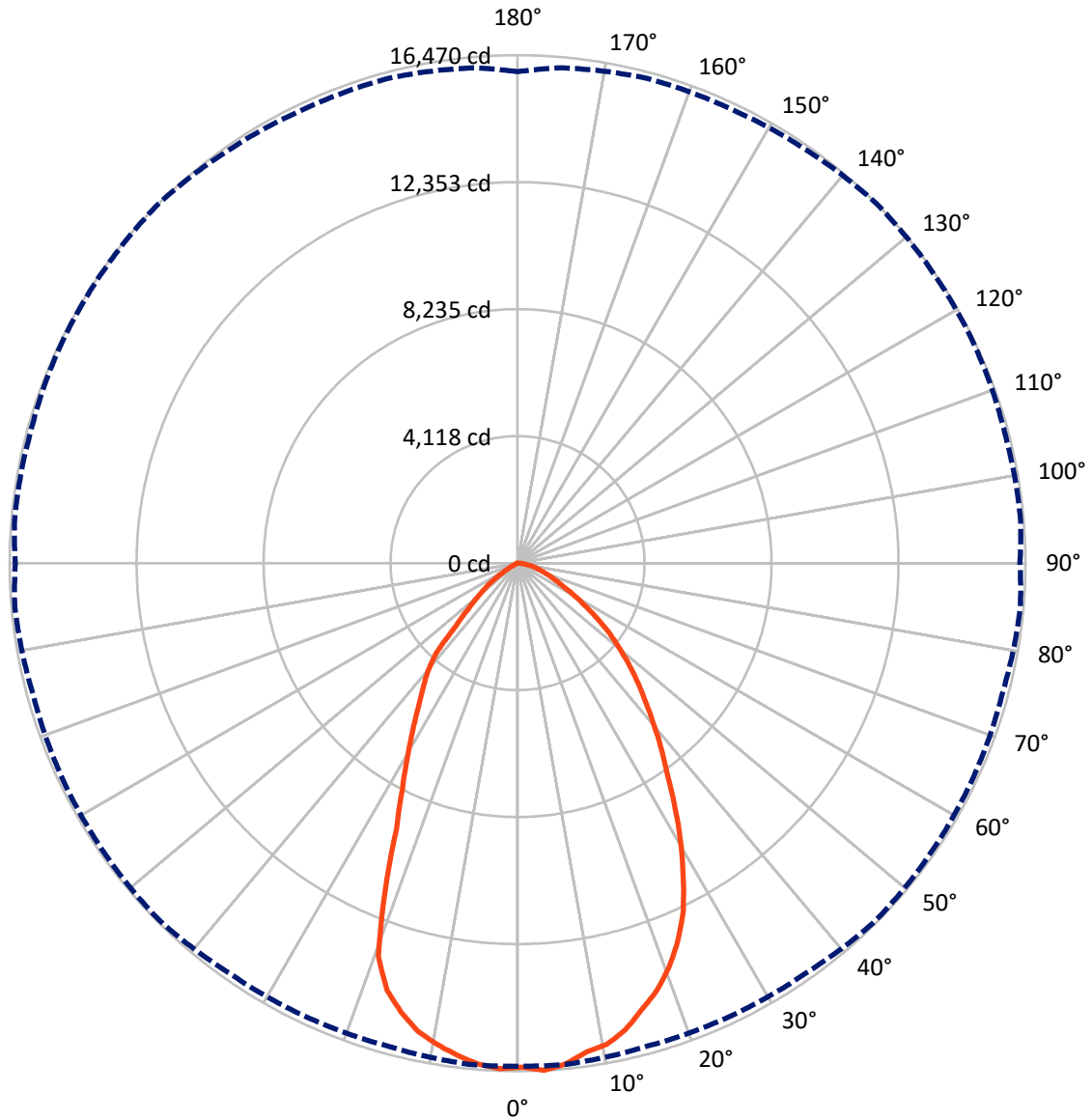
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.9 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	12716.9	0.0	12716.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8755.2	0.0	8755.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	21472.1	0.0	21472.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1532.4	7.1
10°-20°	4109.4	19.1
20°-30°	5011.6	23.3
30°-40°	4575.5	21.3
40°-50°	3306.6	15.4
50°-60°	1805.5	8.4
60°-70°	746.5	3.5
70°-80°	302.3	1.4
80°-90°	82.2	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°	21472.1	100.0
0°-180°	21472.1	100.0



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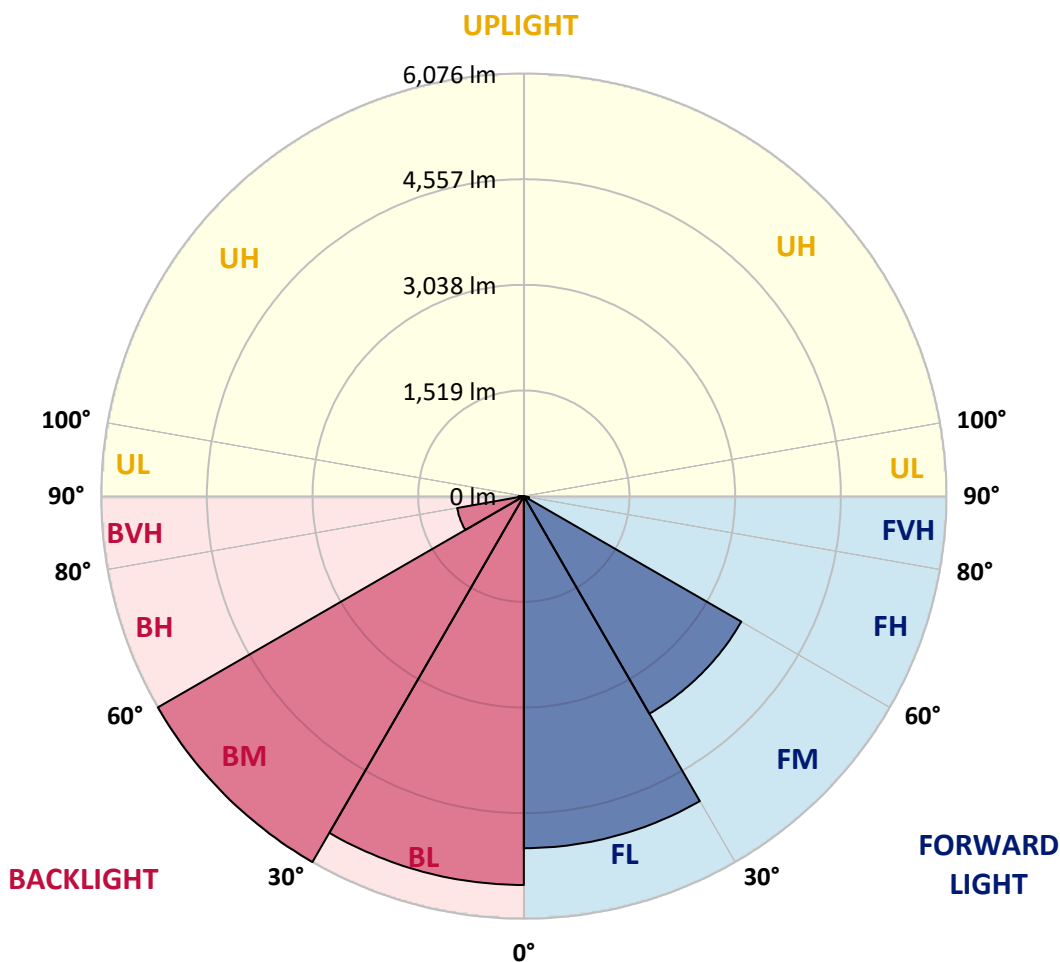
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5061.8	23.6			
FM (30°-60°)	3611.2	16.8			
FH (60°-80°)	75.7	0.4			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	5591.6	26.0	B5		
BM (30°-60°)	6076.4	28.3	B4/8500		
BH (60°-80°)	973.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	75.6	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2
2.5°	16310.0	16331.1	16216.2	16228.3	16249.5	16403.7	16364.4	16328.1	16276.7	16364.4
5°	16288.8	16300.9	16179.9	16137.6	16155.8	16294.8	16167.9	16167.9	16155.8	16140.6
7.5°	16125.5	16131.6	16037.8	15962.2	16010.6	16074.1	15980.4	16025.7	15959.2	16010.6
10°	15880.6	15841.3	15729.4	15708.2	15762.7	15823.1	15759.6	15802.0	15741.5	15780.8
12.5°	15520.8	15460.3	15369.6	15342.4	15436.1	15517.8	15466.3	15442.2	15363.5	15460.3
15°	14132.9	14087.5	14293.1	14653.0	14976.5	15046.1	14991.6	15015.8	14852.5	14879.7
17.5°	11632.3	11547.6	11768.3	12621.0	13836.6	14477.6	14429.2	14272.0	14030.1	14084.5
20°	10570.9	10546.7	10522.6	10725.1	11574.8	13519.1	13585.6	13186.5	12841.8	12766.2
22.5°	9972.2	9963.2	9939.0	9984.3	10208.1	11456.9	12218.9	11850.0	11620.2	11599.0
25°	9424.9	9409.8	9337.3	9394.7	9394.7	9467.3	10443.9	10667.7	10465.1	10440.9
27.5°	8868.6	8841.4	8829.3	8856.5	8717.4	8227.6	8475.5	9567.1	9461.2	9467.3
30°	8266.9	8257.8	8224.5	8282.0	7852.6	7244.8	7087.6	8569.2	8590.4	8584.4
32.5°	7371.8	7411.1	7562.3	7625.8	6918.3	6416.3	6153.3	7414.2	7846.6	7837.5
35°	5355.0	5355.0	5847.9	6764.1	6062.6	5684.6	5542.5	6286.3	7111.8	7142.0
37.5°	4402.5	4417.7	4514.4	4931.7	5231.0	5098.0	5055.7	5291.5	6168.4	6216.8
40°	3961.1	3961.1	3961.1	3788.7	3779.7	4593.0	4568.8	4493.3	5327.8	5433.6
42.5°	3558.9	3568.0	3574.0	3138.6	2896.7	3970.1	3915.7	3800.8	4574.9	4698.9
45°	3144.7	3159.8	3177.9	2624.6	2518.8	2857.4	3314.0	3187.0	3831.1	3991.3
47.5°	1920.1	1944.3	2355.5	2225.5	2237.6	2204.3	2703.2	2682.0	3141.6	3368.4
50°	1297.2	1306.2	1345.6	1412.1	1920.1	1732.6	1914.0	2219.4	2385.7	2730.4
52.5°	1088.5	1103.7	1006.9	916.2	1260.9	1354.6	1336.5	1647.9	1714.5	2140.8
55°	765.0	813.4	768.0	759.0	716.6	1052.3	1012.9	1266.9	1309.3	1626.8
57.5°	78.6	90.7	157.2	565.4	468.7	595.7	722.7	928.3	970.6	1200.4
60°	6.0	6.0	15.1	78.6	341.7	356.8	498.9	571.5	653.1	837.6
62.5°	0.0	3.0	6.0	12.1	54.4	190.5	251.0	299.3	393.1	541.2
65°	0.0	0.0	3.0	9.1	12.1	72.6	96.8	157.2	214.7	335.6
67.5°	0.0	0.0	3.0	6.0	9.1	18.1	33.3	57.5	114.9	190.5
70°	0.0	0.0	3.0	6.0	9.1	15.1	24.2	36.3	51.4	102.8
72.5°	0.0	0.0	3.0	3.0	6.0	15.1	18.1	24.2	36.3	51.4
75°	0.0	0.0	3.0	3.0	9.1	18.1	15.1	18.1	24.2	33.3
77.5°	0.0	0.0	3.0	6.0	9.1	18.1	15.1	18.1	18.1	21.2
80°	0.0	0.0	3.0	6.0	12.1	21.2	18.1	18.1	15.1	15.1
82.5°	0.0	0.0	3.0	9.1	12.1	27.2	27.2	24.2	12.1	9.1
85°	0.0	0.0	6.0	12.1	18.1	30.2	30.2	24.2	9.1	6.0
87.5°	0.0	0.0	6.0	9.1	15.1	21.2	30.2	24.2	9.1	3.0
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°
16340.2	0°	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2	16340.2
16288.8	2.5°	16370.4	16352.3	16412.8	16437.0	16470.2	16343.2	16264.6	16267.6	16122.5
16104.4	5°	16201.1	16204.1	16282.8	16276.7	16310.0	16240.4	16210.2	16158.8	16031.8
15871.5	7.5°	15986.4	15959.2	16034.8	16092.3	16007.6	16056.0	15986.4	16010.6	15935.0
15665.9	10°	15820.1	15756.6	15826.2	15865.5	15868.5	15820.1	15753.6	15690.1	15662.9
15345.4	12.5°	15451.2	15369.6	15487.5	15541.9	15532.9	15439.1	15363.5	15378.7	15291.0
14783.0	15°	14943.2	14946.3	15030.9	15082.3	15034.0	15012.8	15018.8	14982.6	14907.0
14005.9	17.5°	14166.1	14211.5	14435.3	14559.2	14586.4	14544.1	14522.9	14480.6	14405.0
12766.2	20°	12872.0	13144.1	13543.3	13927.3	14002.9	13990.8	13915.2	13897.0	13854.7
11538.5	22.5°	11735.1	11937.7	12400.3	12999.0	13307.4	13337.6	13246.9	13219.7	13174.4
10440.9	25°	10558.8	10776.6	11193.8	11843.9	12481.9	12612.0	12596.8	12515.2	12466.8
9467.3	27.5°	9567.1	9784.8	10162.7	10749.3	11432.7	11850.0	11889.3	11759.3	11756.2
8599.5	30°	8672.0	8971.4	9258.6	9736.4	10398.6	11024.5	11091.0	11000.3	11009.4
7804.2	32.5°	7970.5	8218.5	8463.4	8783.9	9334.2	10063.0	10323.0	10238.3	10205.1
7142.0	35°	7253.9	7423.2	7674.2	7967.5	8342.5	9065.1	9515.7	9452.2	9418.9
6247.0	37.5°	6437.5	6727.8	6909.2	7238.8	7532.1	8106.6	8741.6	8732.5	8663.0
5485.0	40°	5599.9	5905.3	6180.5	6513.1	6739.9	7196.5	7901.0	7898.0	7907.0
4695.8	42.5°	4841.0	5122.2	5454.8	5817.6	6035.4	6368.0	7123.9	7166.2	7217.6
4045.7	45°	4154.6	4408.6	4717.0	5158.5	5421.5	5612.0	6283.3	6476.8	6473.8
3465.2	47.5°	3537.8	3776.6	4036.7	4466.0	4801.7	4974.0	5530.4	5805.6	5787.4
2842.3	50°	2969.3	3181.0	3453.1	3764.5	4215.1	4366.3	4780.5	5143.4	5116.1
2264.8	52.5°	2388.7	2682.0	2911.8	3196.1	3670.8	3819.0	4139.5	4493.3	4472.1
1699.3	55°	1862.6	2146.8	2425.0	2669.9	3069.1	3289.8	3519.6	3882.5	3876.4
1330.4	57.5°	1409.1	1720.5	1983.6	2216.4	2533.9	2806.0	2990.5	3320.0	3362.4
910.1	60°	1043.2	1282.1	1566.3	1826.3	2077.3	2358.5	2482.5	2806.0	2824.2
622.9	62.5°	710.6	973.6	1251.8	1487.7	1675.1	1965.4	2077.3	2343.4	2376.6
399.1	65°	492.9	662.2	979.7	1149.0	1378.8	1626.8	1738.6	1950.3	2016.8
229.8	67.5°	326.6	471.7	765.0	919.2	1146.0	1315.3	1457.4	1629.8	1702.4
145.1	70°	178.4	347.7	547.3	725.7	922.2	1085.5	1224.6	1363.7	1427.2
66.5	72.5°	120.9	232.8	381.0	574.5	743.8	904.1	1028.1	1130.9	1133.9
39.3	75°	60.5	157.2	290.3	444.5	580.6	737.8	849.7	910.1	837.6
24.2	77.5°	36.3	114.9	235.9	356.8	471.7	595.7	659.2	692.4	574.5
18.1	80°	21.2	81.6	184.4	284.2	326.6	438.4	498.9	508.0	384.0
12.1	82.5°	15.1	60.5	145.1	208.6	199.6	308.4	374.9	362.8	244.9
9.1	85°	9.1	42.3	90.7	130.0	120.9	202.6	217.7	223.8	142.1
6.0	87.5°	6.0	24.2	48.4	69.5	57.5	87.7	87.7	105.8	69.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16340.2
15935.0
16001.5
15808.0
15541.9
15215.4
14831.4
14371.8
13757.9
13162.3
12415.4
11750.2
10964.0
10208.1
9373.5
8720.4
7907.0
7190.4
6479.8
5793.5
5140.3
4517.4
3891.5
3344.2
2851.4
2382.7
2001.7
1693.3
1403.0
1106.7
783.1
553.3
359.8
226.8
130.0
60.5
0.0

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