

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: P638298

Luminaire Tested: **IFLD-L-SA7E-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638298
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34502.8 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

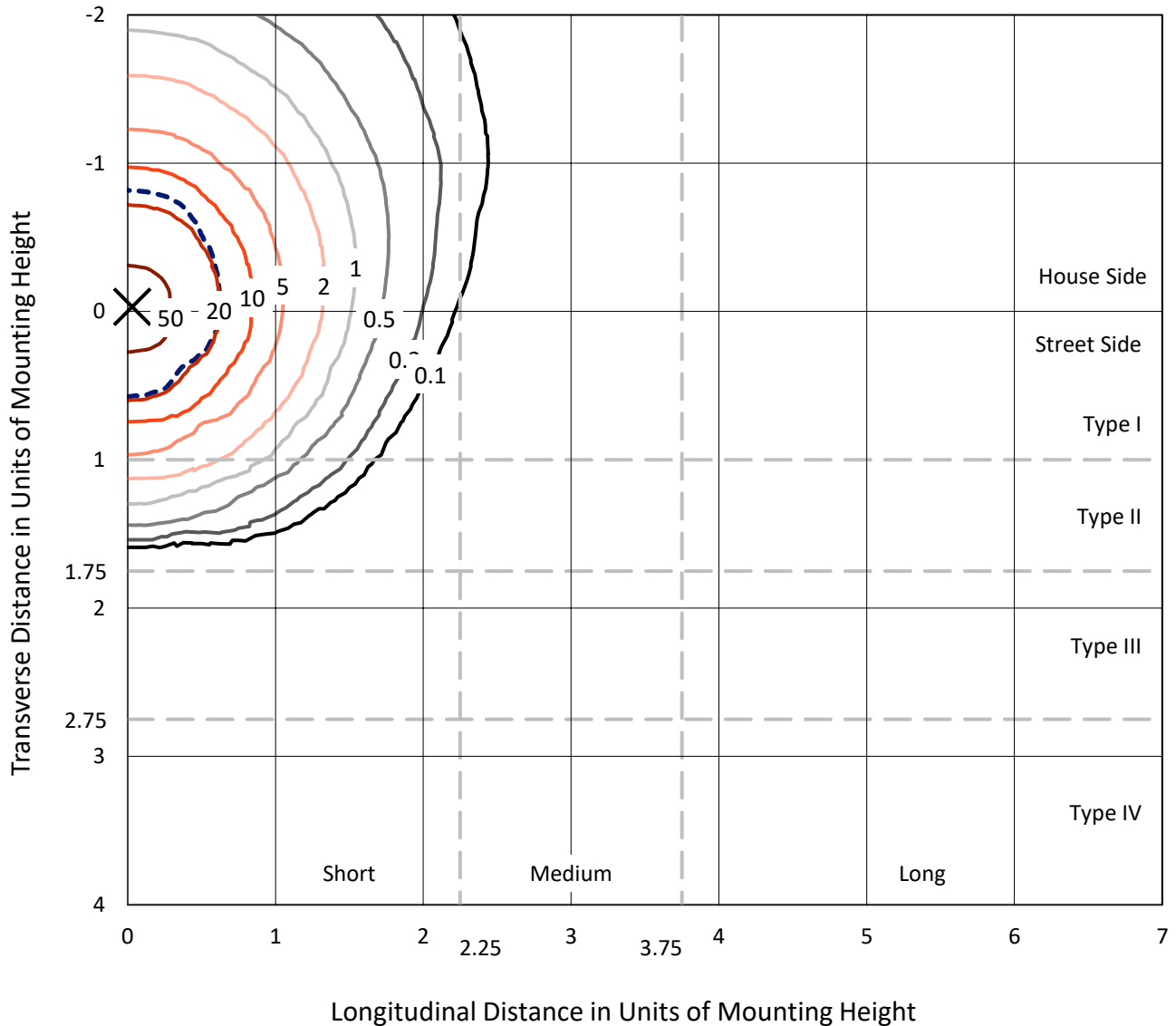
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

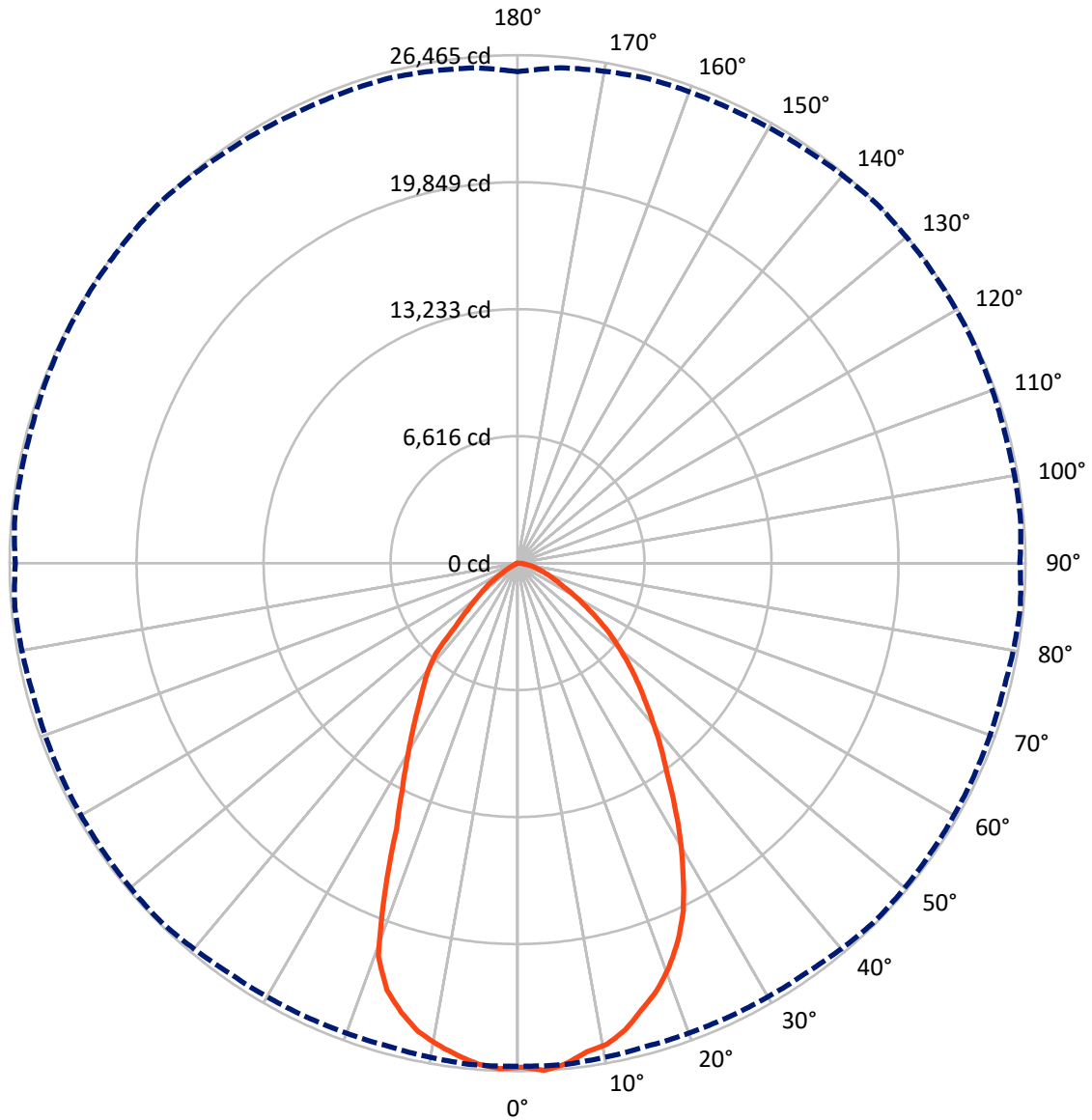
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.6 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	20434.3	0.0	20434.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14068.5	0.0	14068.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	34502.8	0.0	34502.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2462.4	7.1
10°-20°	6603.2	19.1
20°-30°	8053.0	23.3
30°-40°	7352.3	21.3
40°-50°	5313.3	15.4
50°-60°	2901.1	8.4
60°-70°	1199.5	3.5
70°-80°	485.8	1.4
80°-90°	132.2	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°	34502.8	100.0
0°-180°	34502.8	100.0



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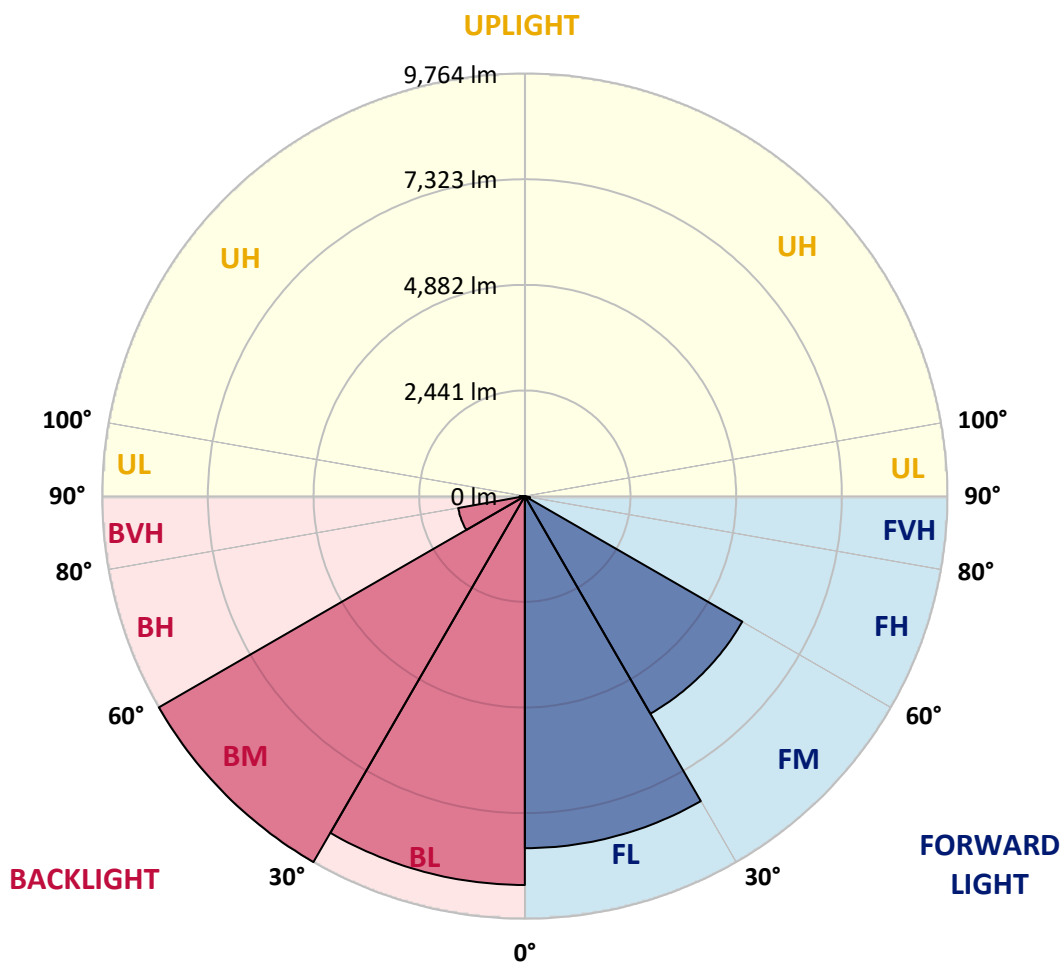
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8133.6	23.6			
FM (30°-60°)	5802.7	16.8			
FH (60°-80°)	121.6	0.4			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	8985.0	26.0	B5		
BM (30°-60°)	9764.0	28.3	B5		
BH (60°-80°)	1563.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	121.6	0.4			G2/225
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°	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5
2.5°	26207.9	26241.9	26057.3	26076.7	26110.7	26358.5	26295.4	26237.1	26154.5	26295.4
5°	26173.9	26193.3	25999.0	25931.0	25960.1	26183.6	25979.6	25979.6	25960.1	25935.8
7.5°	25911.5	25921.3	25770.6	25649.2	25726.9	25828.9	25678.3	25751.2	25644.3	25726.9
10°	25518.0	25454.8	25275.0	25241.0	25328.5	25425.7	25323.6	25391.7	25294.5	25357.6
12.5°	24939.8	24842.6	24696.9	24653.1	24803.7	24934.9	24852.3	24813.5	24687.1	24842.6
15°	22709.6	22636.8	22967.2	23545.3	24065.2	24177.0	24089.5	24128.4	23866.0	23909.7
17.5°	18691.5	18555.4	18910.1	20280.3	22233.5	23263.5	23185.8	22933.1	22544.4	22631.9
20°	16986.1	16947.2	16908.3	17233.9	18599.2	21723.3	21830.2	21188.9	20635.0	20513.5
22.5°	16024.0	16009.5	15970.6	16043.5	16403.0	18409.7	19634.1	19041.3	18672.0	18638.0
25°	15144.6	15120.3	15003.7	15096.0	15096.0	15212.6	16782.0	17141.6	16816.0	16777.1
27.5°	14250.6	14206.9	14187.5	14231.2	14007.7	13220.6	13619.0	15373.0	15202.9	15212.6
30°	13283.7	13269.2	13215.7	13308.0	12618.1	11641.5	11388.8	13769.6	13803.6	13793.9
32.5°	11845.5	11908.7	12151.6	12253.7	11116.7	10310.2	9887.5	11913.6	12608.4	12593.8
35°	8604.8	8604.8	9396.8	10868.9	9741.7	9134.4	8906.0	10101.3	11427.7	11476.3
37.5°	7074.3	7098.6	7254.1	7924.6	8405.6	8191.8	8123.8	8502.8	9911.8	9989.5
40°	6364.9	6364.9	6364.9	6088.0	6073.4	7380.4	7341.5	7220.1	8561.1	8731.1
42.5°	5718.7	5733.3	5743.0	5043.3	4654.7	6379.5	6292.0	6107.4	7351.2	7550.4
45°	5053.1	5077.4	5106.5	4217.4	4047.3	4591.5	5325.2	5121.1	6156.0	6413.5
47.5°	3085.3	3124.2	3784.9	3576.0	3595.4	3542.0	4343.7	4309.7	5048.2	5412.6
50°	2084.4	2099.0	2162.1	2269.0	3085.3	2784.0	3075.6	3566.3	3833.5	4387.4
52.5°	1749.1	1773.4	1618.0	1472.2	2026.1	2176.7	2147.6	2648.0	2754.9	3440.0
55°	1229.3	1307.0	1234.1	1219.5	1151.5	1690.8	1627.7	2035.8	2103.8	2614.0
57.5°	126.3	145.8	252.7	908.6	753.1	957.2	1161.2	1491.6	1559.6	1928.9
60°	9.7	9.7	24.3	126.3	549.0	573.3	801.7	918.3	1049.5	1345.9
62.5°	0.0	4.9	9.7	19.4	87.5	306.1	403.3	481.0	631.6	869.7
65°	0.0	0.0	4.9	14.6	19.4	116.6	155.5	252.7	345.0	539.3
67.5°	0.0	0.0	4.9	9.7	14.6	29.2	53.4	92.3	184.6	306.1
70°	0.0	0.0	4.9	9.7	14.6	24.3	38.9	58.3	82.6	165.2
72.5°	0.0	0.0	4.9	4.9	9.7	24.3	29.2	38.9	58.3	82.6
75°	0.0	0.0	4.9	4.9	14.6	29.2	24.3	29.2	38.9	53.4
77.5°	0.0	0.0	4.9	9.7	14.6	29.2	24.3	29.2	29.2	34.0
80°	0.0	0.0	4.9	9.7	19.4	34.0	29.2	29.2	24.3	24.3
82.5°	0.0	0.0	4.9	14.6	19.4	43.7	43.7	38.9	19.4	14.6
85°	0.0	0.0	9.7	19.4	29.2	48.6	48.6	38.9	14.6	9.7
87.5°	0.0	0.0	9.7	14.6	24.3	34.0	48.6	38.9	14.6	4.9
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°
26256.5	0°	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5	26256.5
26173.9	2.5°	26305.1	26275.9	26373.1	26412.0	26465.4	26261.4	26135.0	26139.9	25906.7
25877.5	5°	26033.0	26037.9	26164.2	26154.5	26207.9	26096.2	26047.6	25965.0	25760.9
25503.4	7.5°	25688.0	25644.3	25765.8	25858.1	25722.0	25799.8	25688.0	25726.9	25605.4
25173.0	10°	25420.8	25318.8	25430.5	25493.7	25498.5	25420.8	25313.9	25211.9	25168.1
24658.0	12.5°	24828.0	24696.9	24886.3	24973.8	24959.2	24808.6	24687.1	24711.4	24570.5
23754.3	15°	24011.8	24016.6	24152.7	24235.3	24157.5	24123.5	24133.2	24074.9	23953.5
22505.6	17.5°	22763.1	22836.0	23195.5	23394.7	23438.4	23370.4	23336.4	23268.4	23146.9
20513.5	20°	20683.6	21120.8	21762.2	22379.2	22500.7	22481.3	22359.8	22330.7	22262.6
18540.9	22.5°	18856.7	19182.2	19925.6	20887.6	21383.2	21431.8	21286.0	21242.3	21169.4
16777.1	25°	16966.6	17316.5	17987.0	19031.6	20056.8	20265.7	20241.4	20110.2	20032.5
15212.6	27.5°	15373.0	15722.8	16330.1	17272.7	18370.8	19041.3	19104.5	18895.5	18890.7
13818.2	30°	13934.8	14415.8	14877.4	15645.1	16709.1	17714.9	17821.8	17676.0	17690.6
12540.3	32.5°	12807.6	13206.0	13599.5	14114.6	14998.9	16169.8	16587.7	16451.6	16398.2
11476.3	35°	11656.1	11928.1	12331.4	12802.7	13405.2	14566.4	15290.4	15188.3	15134.9
10038.1	37.5°	10344.2	10810.6	11102.2	11631.8	12103.1	13026.2	14046.5	14032.0	13920.2
8813.7	40°	8998.3	9489.1	9931.2	10465.7	10830.1	11563.7	12695.8	12691.0	12705.5
7545.6	42.5°	7778.8	8230.7	8765.1	9348.2	9698.0	10232.5	11447.1	11515.2	11597.8
6501.0	45°	6675.9	7084.0	7579.6	8289.0	8711.7	9017.8	10096.4	10407.4	10402.5
5568.1	47.5°	5684.7	6068.5	6486.4	7176.3	7715.6	7992.6	8886.6	9328.7	9299.6
4567.2	50°	4771.3	5111.4	5548.7	6049.1	6773.1	7016.0	7681.6	8264.7	8220.9
3639.2	52.5°	3838.4	4309.7	4678.9	5135.7	5898.5	6136.6	6651.6	7220.1	7186.0
2730.6	55°	2993.0	3449.7	3896.7	4290.2	4931.6	5286.3	5655.5	6238.6	6228.9
2137.8	57.5°	2264.2	2764.6	3187.3	3561.4	4071.6	4508.9	4805.3	5334.9	5402.9
1462.5	60°	1676.3	2060.1	2516.8	2934.7	3337.9	3789.8	3989.0	4508.9	4538.0
1000.9	62.5°	1141.8	1564.5	2011.5	2390.5	2691.7	3158.2	3337.9	3765.5	3819.0
641.4	65°	792.0	1064.1	1574.2	1846.3	2215.6	2614.0	2793.8	3133.9	3240.8
369.3	67.5°	524.7	758.0	1229.3	1477.0	1841.5	2113.5	2341.9	2618.8	2735.5
233.2	70°	286.7	558.8	879.4	1166.1	1481.9	1744.3	1967.8	2191.3	2293.3
106.9	72.5°	194.3	374.1	612.2	923.2	1195.2	1452.8	1652.0	1817.2	1822.0
63.2	75°	97.2	252.7	466.4	714.2	932.9	1185.5	1365.3	1462.5	1345.9
38.9	77.5°	58.3	184.6	379.0	573.3	758.0	957.2	1059.2	1112.6	923.2
29.2	80°	34.0	131.2	296.4	456.7	524.7	704.5	801.7	816.3	617.1
19.4	82.5°	24.3	97.2	233.2	335.3	320.7	495.6	602.5	583.0	393.6
14.6	85°	14.6	68.0	145.8	208.9	194.3	325.5	349.8	359.5	228.4
9.7	87.5°	9.7	38.9	77.7	111.8	92.3	140.9	140.9	170.1	111.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26256.5
25605.4
25712.3
25401.4
24973.8
24449.1
23832.0
23093.5
22107.2
21150.0
19949.9
18881.0
17617.7
16403.0
15062.0
14012.5
12705.5
11554.0
10412.2
9309.3
8259.8
7258.9
6253.2
5373.7
4581.8
3828.7
3216.5
2720.9
2254.4
1778.3
1258.4
889.1
578.2
364.4
208.9
97.2
0.0

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