

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: P638017

Luminaire Tested: **IFLD-S-SA2E-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638017
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12126.9 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

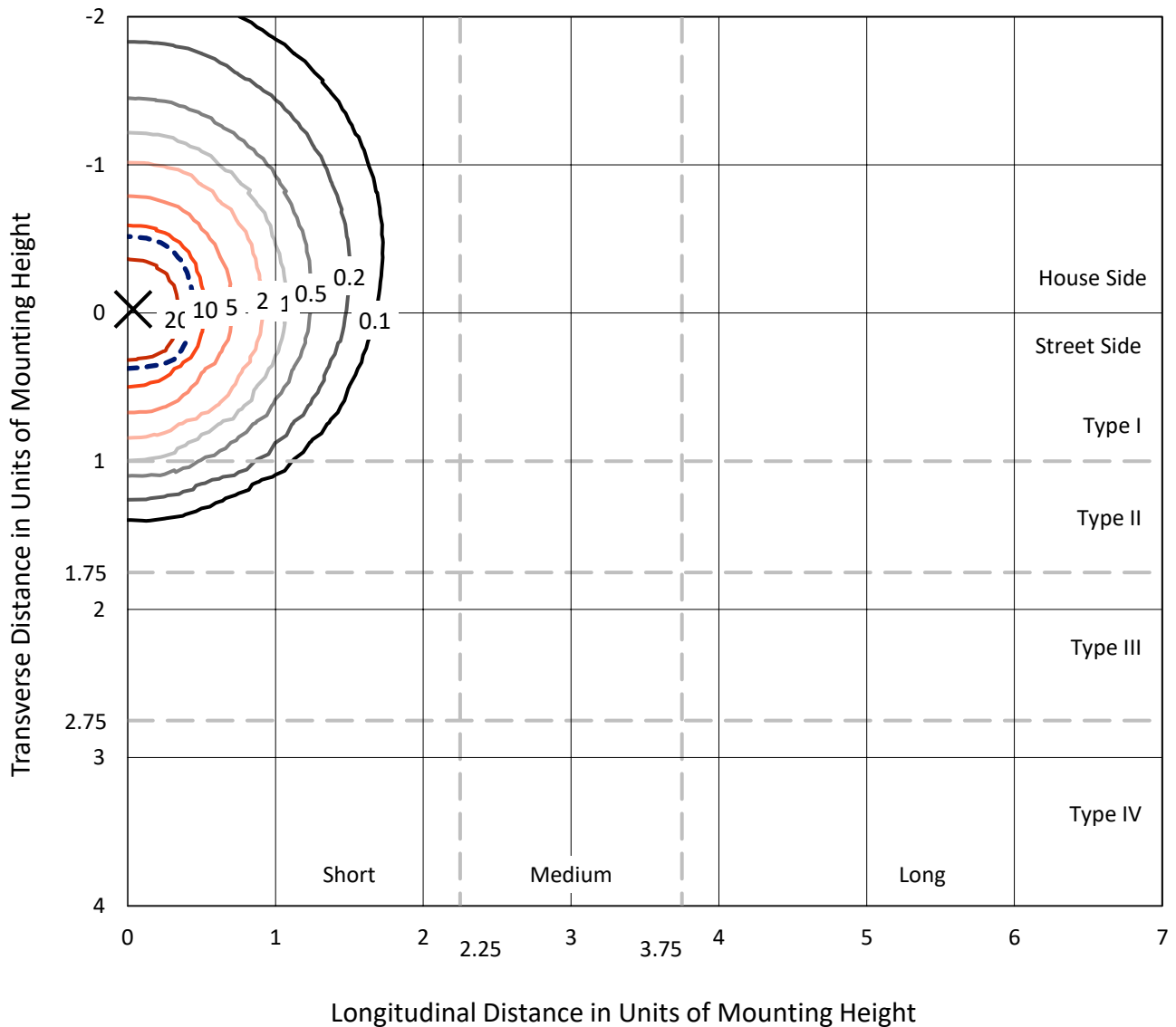
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

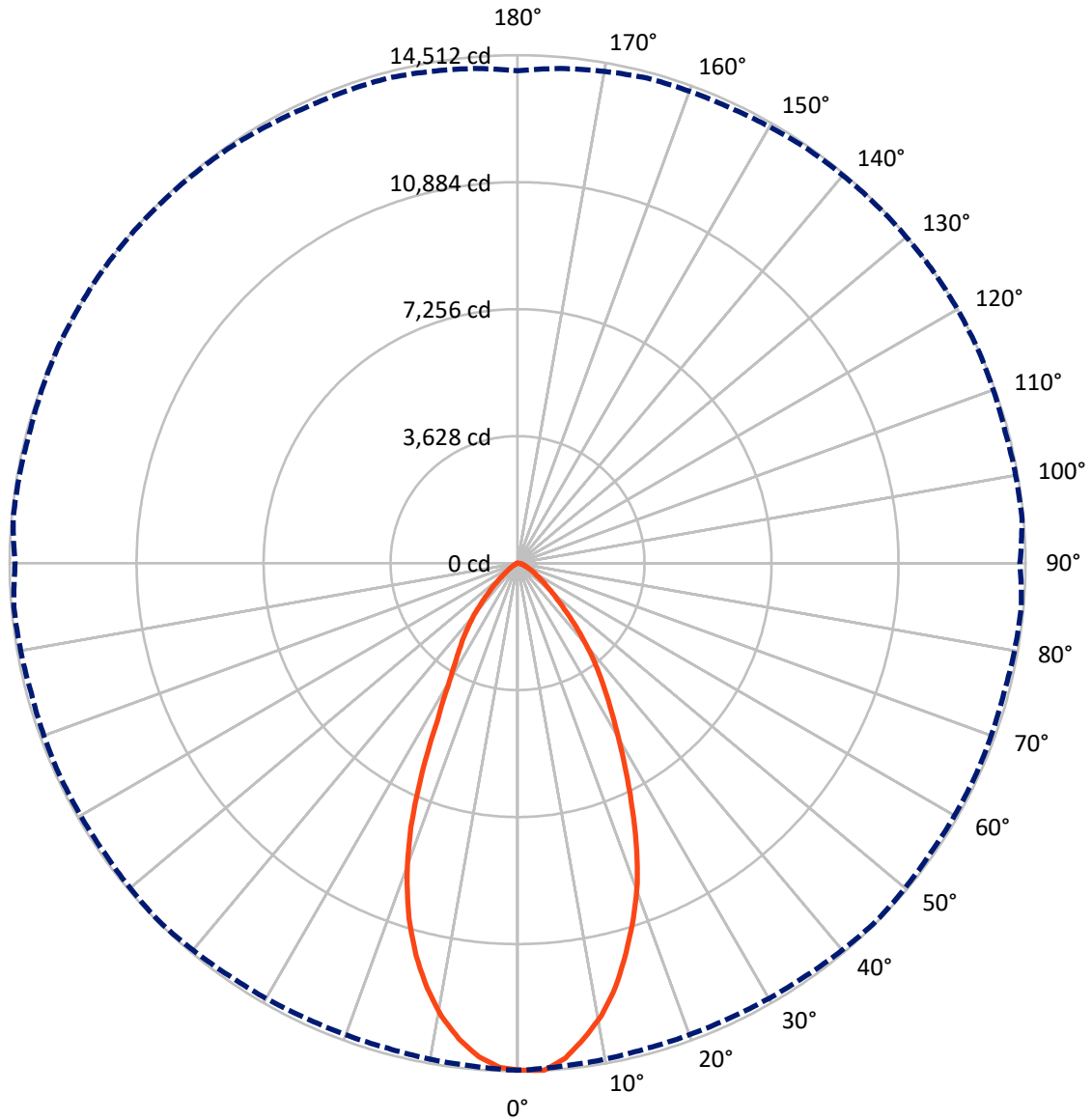
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.2 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	6881.3	0.0	6881.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5245.6	0.0	5245.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	12126.9	0.0	12126.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1315.6	10.8
10°-20°	3136.2	25.9
20°-30°	3194.1	26.3
30°-40°	2381.8	19.6
40°-50°	1244.3	10.3
50°-60°	523.4	4.3
60°-70°	213.8	1.8
70°-80°	90.0	0.7
80°-90°	27.7	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°	12126.9	100.0
0°-180°	12126.9	100.0



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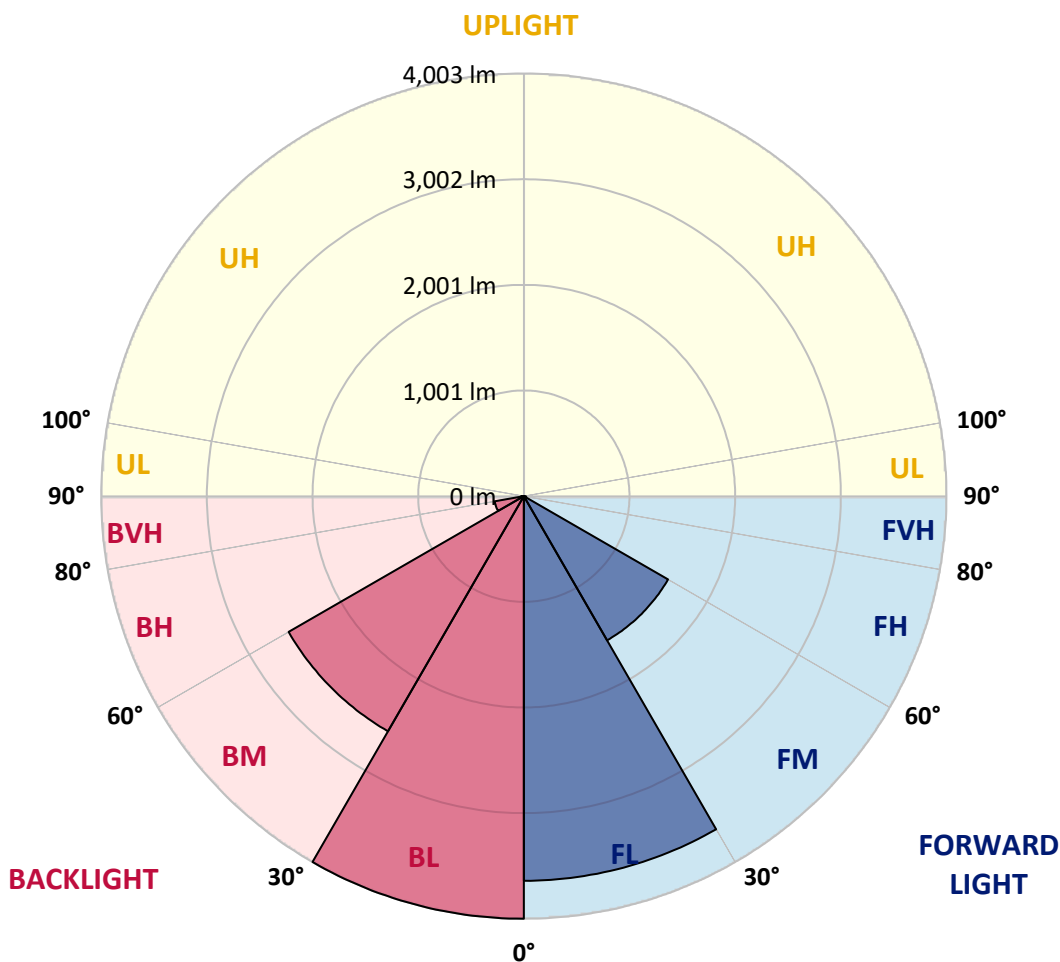
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3643.1	30.0			
FM (30°-60°)	1577.1	13.0			
FH (60°-80°)	22.8	0.2			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	4002.8	33.0	B4/5000		
BM (30°-60°)	2572.4	21.2	B3/5000		
BH (60°-80°)	280.9	2.3	B1/500		G1/500
BVH (80°-90°)	25.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7
2.5°	14490.2	14431.0	14346.9	14339.1	14382.8	14477.8	14417.0	14420.1	14382.8	14446.6
5°	14262.8	14206.7	14149.1	14072.8	14136.6	14177.1	14146.0	14111.7	14063.4	14125.7
7.5°	13832.9	13801.7	13716.0	13681.8	13720.7	13765.9	13698.9	13689.5	13622.6	13703.6
10°	13175.5	13163.0	13078.9	13058.7	13092.9	13161.5	13131.9	13125.6	13083.6	13075.8
12.5°	12493.2	12444.9	12340.5	12334.3	12385.7	12488.5	12409.1	12332.7	12356.1	12376.4
15°	10736.0	10684.6	10943.2	11349.8	11563.2	11555.4	11578.8	11486.9	11458.8	11468.2
17.5°	8534.9	8447.7	8541.2	9170.5	10184.6	10773.4	10611.4	10413.6	10307.7	10237.6
20°	7366.6	7371.3	7354.2	7516.2	8148.6	9491.4	9452.5	9070.8	8932.2	8874.5
22.5°	6656.3	6629.8	6592.4	6643.8	6813.6	7601.8	8129.9	7779.4	7731.1	7667.3
25°	5960.0	5960.0	5914.8	5966.2	6014.5	6025.4	6555.0	6698.3	6604.9	6604.9
27.5°	5357.1	5326.0	5305.7	5329.1	5265.2	4958.3	5025.3	5759.0	5695.2	5656.2
30°	4758.9	4749.6	4715.3	4746.5	4509.7	4163.9	4023.7	4860.2	4927.2	4913.2
32.5°	3928.7	3966.0	4118.7	4167.0	3762.0	3483.1	3349.2	4034.6	4302.5	4291.6
35°	2670.0	2701.1	2875.6	3452.0	3118.6	2919.2	2880.3	3209.0	3649.8	3691.9
37.5°	2126.3	2121.7	2171.5	2274.3	2506.4	2458.1	2447.2	2532.9	2976.9	2995.6
40°	1752.5	1746.2	1744.7	1660.6	1602.9	2043.8	2014.2	1962.8	2347.5	2384.9
42.5°	1412.9	1419.1	1423.8	1240.0	1155.9	1576.4	1559.3	1506.3	1841.3	1884.9
45°	1109.1	1107.6	1116.9	923.7	900.4	1007.9	1165.2	1123.1	1389.5	1436.3
47.5°	574.8	595.1	721.2	715.0	725.9	715.0	881.7	870.8	1045.3	1120.0
50°	386.3	392.6	403.5	405.0	571.7	526.5	598.2	677.6	732.1	847.4
52.5°	299.1	303.8	275.7	258.6	350.5	389.4	392.6	468.9	510.9	627.8
55°	166.7	186.9	201.0	202.5	193.2	288.2	286.6	347.4	380.1	458.0
57.5°	21.8	26.5	40.5	130.9	129.3	160.4	201.0	252.4	271.0	334.9
60°	1.6	3.1	4.7	20.3	85.7	93.5	137.1	157.3	188.5	235.2
62.5°	0.0	0.0	1.6	4.7	17.1	54.5	71.7	82.6	110.6	154.2
65°	0.0	0.0	1.6	3.1	6.2	20.3	28.0	45.2	65.4	95.0
67.5°	0.0	0.0	1.6	3.1	4.7	7.8	12.5	20.3	34.3	57.6
70°	0.0	0.0	1.6	3.1	4.7	6.2	9.3	12.5	18.7	31.2
72.5°	0.0	0.0	1.6	1.6	3.1	7.8	7.8	9.3	12.5	17.1
75°	0.0	0.0	1.6	3.1	4.7	7.8	7.8	7.8	9.3	10.9
77.5°	0.0	0.0	1.6	3.1	4.7	7.8	6.2	7.8	7.8	7.8
80°	0.0	0.0	1.6	3.1	4.7	7.8	9.3	7.8	6.2	6.2
82.5°	0.0	0.0	1.6	4.7	4.7	10.9	10.9	10.9	4.7	4.7
85°	0.0	0.0	3.1	4.7	7.8	12.5	12.5	9.3	4.7	3.1
87.5°	0.0	0.0	1.6	3.1	3.1	6.2	9.3	7.8	3.1	1.6
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°
14488.7	0°	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7	14488.7
14353.2	2.5°	14468.4	14429.5	14502.7	14512.0	14480.9	14441.9	14351.6	14343.8	14186.5
14035.4	5°	14194.3	14130.4	14177.1	14208.3	14197.4	14155.3	14117.9	14083.7	13941.9
13519.8	7.5°	13683.3	13660.0	13681.8	13705.1	13750.3	13705.1	13689.5	13653.7	13513.5
13011.9	10°	13116.3	13072.7	13155.2	13144.3	13131.9	13119.4	13054.0	13060.2	12895.1
12320.3	12.5°	12420.0	12346.8	12426.2	12435.6	12426.2	12382.6	12309.4	12340.5	12189.4
11385.6	15°	11483.8	11476.0	11533.6	11571.0	11597.5	11550.8	11525.8	11541.4	11451.1
10183.0	17.5°	10334.1	10435.4	10623.9	10687.8	10689.3	10737.6	10723.6	10704.9	10637.9
8851.2	20°	8982.0	9176.7	9466.5	9764.0	9849.7	9809.2	9790.5	9824.8	9725.1
7600.3	22.5°	7734.3	7900.9	8237.4	8672.0	8922.8	8947.7	8943.1	8913.5	8874.5
6598.6	25°	6675.0	6823.0	7145.4	7542.6	8024.0	8095.7	8098.8	8089.4	8055.2
5690.5	27.5°	5780.8	5960.0	6137.6	6492.7	7005.2	7301.2	7263.8	7252.9	7240.4
4924.1	30°	4970.8	5196.7	5363.4	5584.6	6044.1	6444.4	6483.4	6464.7	6435.1
4290.1	32.5°	4329.0	4463.0	4674.8	4824.4	5154.6	5607.9	5757.5	5743.4	5717.0
3718.4	35°	3771.3	3824.3	3991.0	4157.6	4377.3	4816.6	5037.8	5006.6	5002.0
3029.8	37.5°	3106.2	3283.7	3375.7	3543.9	3698.1	4039.3	4344.6	4330.6	4332.1
2436.3	40°	2508.0	2610.8	2793.1	2934.8	3076.6	3325.8	3665.4	3674.7	3671.6
1886.4	42.5°	1925.4	2025.1	2216.7	2370.9	2497.1	2651.3	2975.3	2986.2	3000.2
1469.0	45°	1503.2	1567.1	1707.3	1867.7	2001.7	2095.2	2341.3	2411.4	2413.0
1138.7	47.5°	1166.8	1240.0	1339.7	1493.9	1624.7	1691.7	1870.9	1965.9	1961.2
873.9	50°	916.0	982.9	1063.9	1185.5	1327.2	1380.2	1512.6	1606.0	1601.4
658.9	52.5°	701.0	786.7	858.3	951.8	1090.4	1135.6	1230.6	1338.1	1322.5
482.9	55°	531.2	618.4	685.4	763.3	889.5	947.1	1012.5	1098.2	1101.3
373.9	57.5°	400.3	490.7	551.4	630.9	725.9	789.8	839.6	931.5	930.0
255.5	60°	286.6	364.5	437.7	520.3	593.5	666.7	701.0	788.2	791.3
180.7	62.5°	207.2	280.4	350.5	422.2	487.6	559.2	590.4	658.9	668.3
118.4	65°	144.9	196.3	277.3	331.8	405.0	458.0	498.5	557.7	568.6
70.1	67.5°	93.5	141.8	219.6	267.9	334.9	380.1	422.2	468.9	482.9
45.2	70°	56.1	107.5	163.6	215.0	275.7	316.2	356.7	397.2	405.0
21.8	72.5°	35.8	74.8	118.4	174.5	221.2	264.8	300.6	330.2	306.9
14.0	75°	20.3	51.4	93.5	137.1	179.1	221.2	250.8	266.4	213.4
9.3	77.5°	12.5	37.4	76.3	110.6	138.6	177.6	196.3	205.6	152.7
6.2	80°	7.8	28.0	63.9	90.3	90.3	130.9	152.7	160.4	110.6
4.7	82.5°	6.2	20.3	49.8	68.5	60.8	98.1	119.9	121.5	77.9
3.1	85°	4.7	15.6	31.2	45.2	42.1	68.5	70.1	77.9	51.4
3.1	87.5°	3.1	9.3	18.7	26.5	23.4	32.7	37.4	42.1	28.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14488.7
14063.4
13828.2
13483.9
12839.0
12145.8
11342.0
10538.2
9653.4
8799.8
7939.9
7167.2
6397.7
5646.9
4950.5
4282.3
3617.1
2953.5
2372.5
1944.1
1601.4
1324.1
1101.3
926.9
783.6
665.2
565.5
481.3
398.8
285.1
202.5
143.3
102.8
71.7
46.7
24.9
0.0

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