

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: P638302

Luminaire Tested: **IFLD-L-SA8D-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34072.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

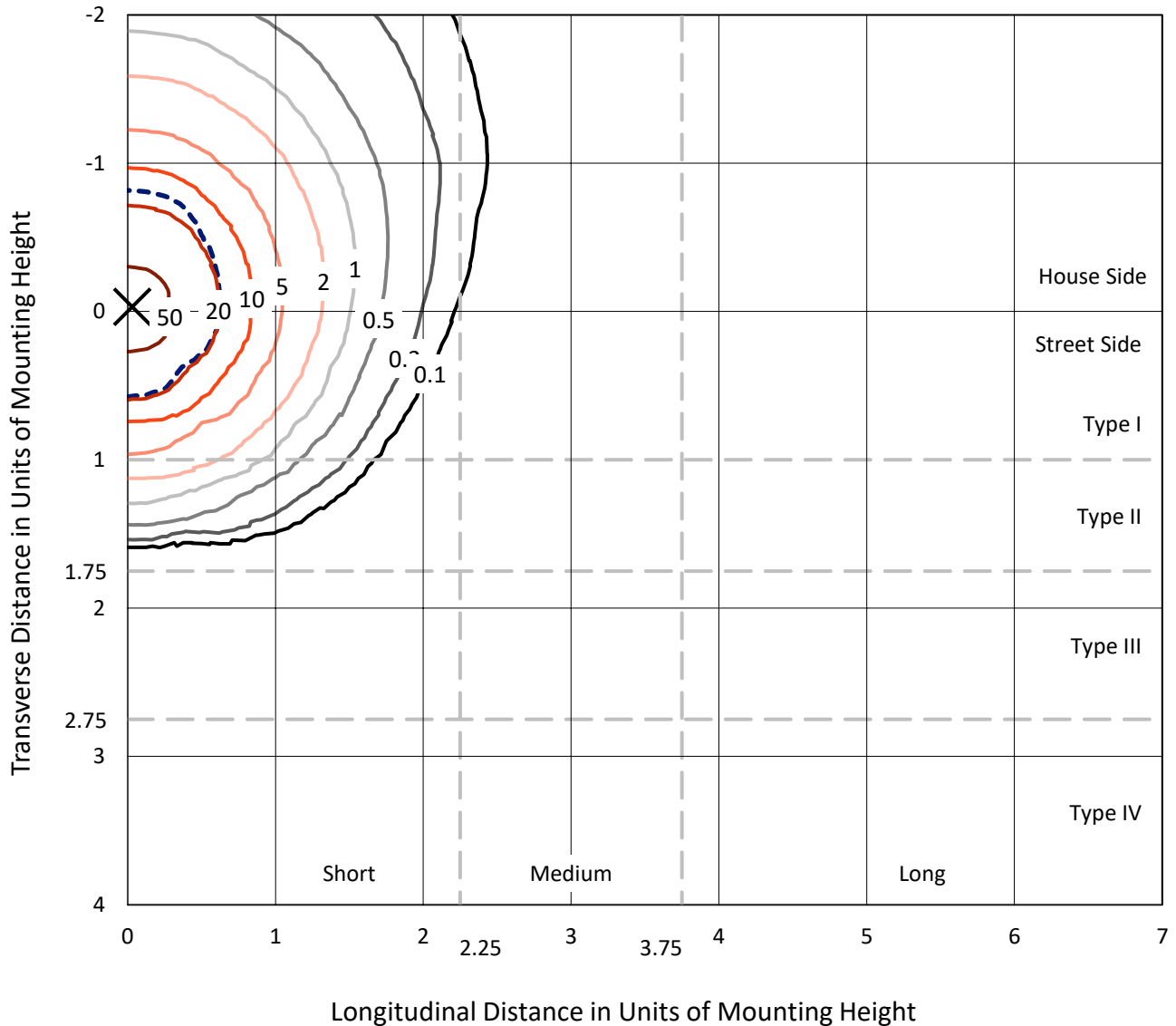
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

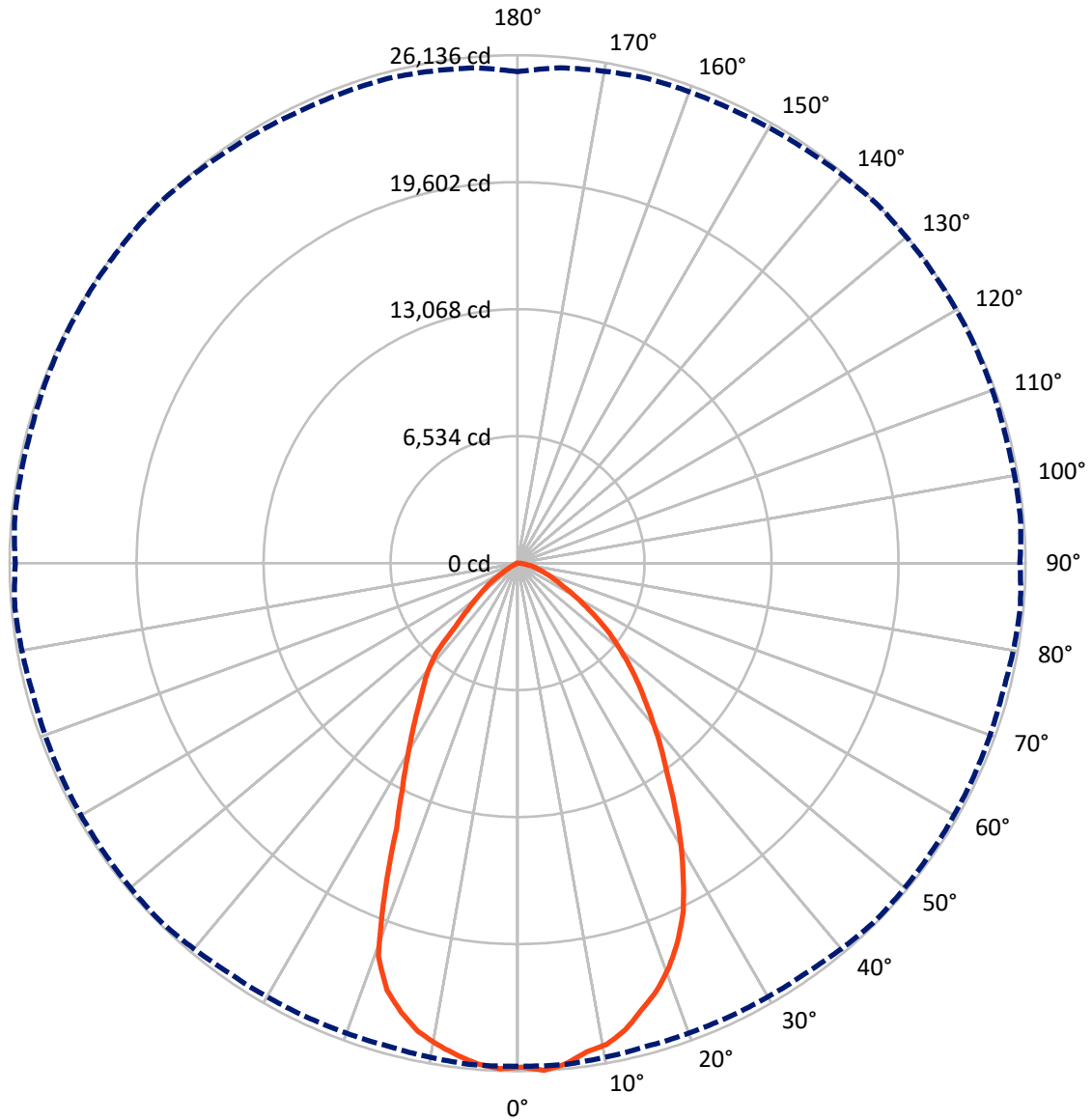
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.8 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	20179.5	0.0	20179.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13893.1	0.0	13893.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	34072.6	0.0	34072.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2431.7	7.1
10°-20°	6520.9	19.1
20°-30°	7952.6	23.3
30°-40°	7260.6	21.3
40°-50°	5247.1	15.4
50°-60°	2865.0	8.4
60°-70°	1184.6	3.5
70°-80°	479.7	1.4
80°-90°	130.5	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°	34072.6	100.0
0°-180°	34072.6	100.0

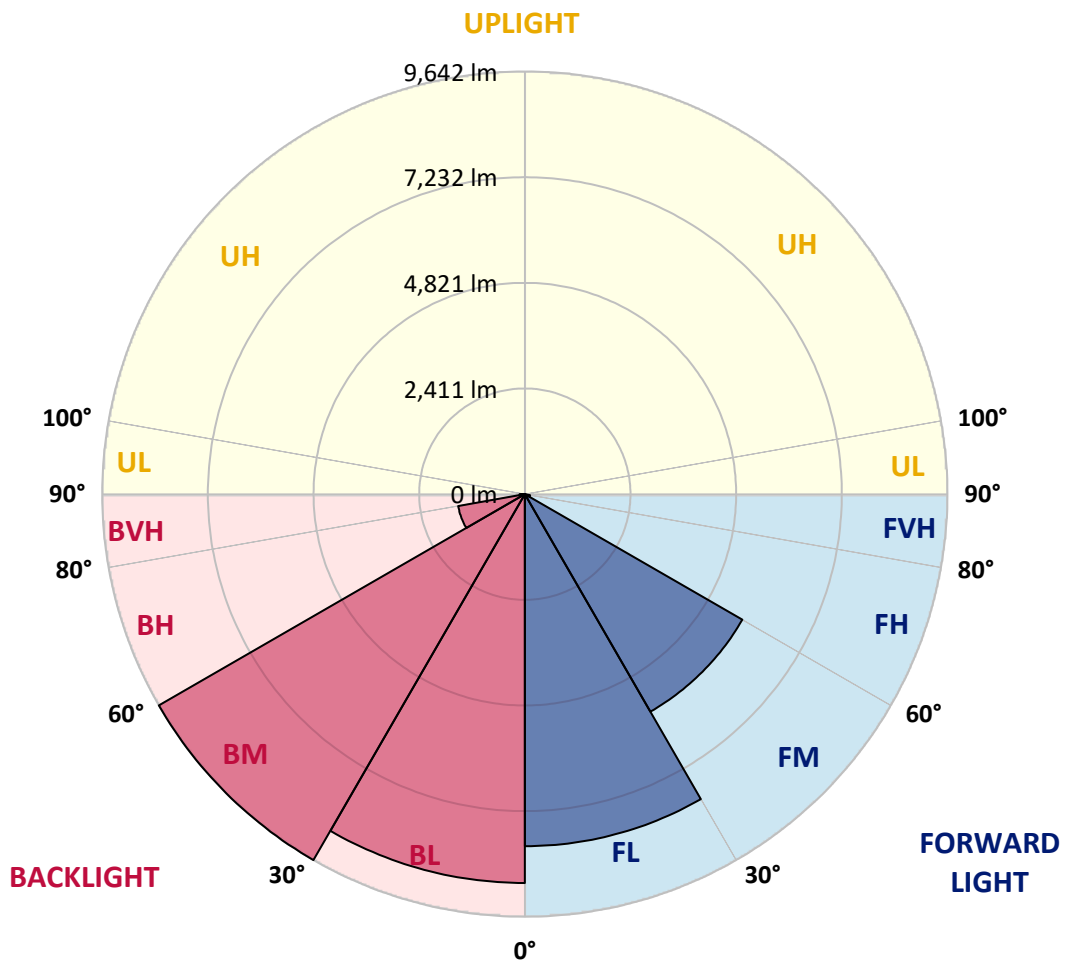


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8032.2	23.6			
FM (30°-60°)	5730.4	16.8			
FH (60°-80°)	120.1	0.4			G0/660
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	8873.0	26.0	B5		
BM (30°-60°)	9642.3	28.3	B5		
BH (60°-80°)	1544.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	120.0	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°	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2
2.5°	25881.2	25914.8	25732.4	25751.6	25785.2	26029.9	25967.5	25910.0	25828.4	25967.5
5°	25847.6	25866.8	25674.9	25607.7	25636.5	25857.2	25655.7	25655.7	25636.5	25612.5
7.5°	25588.5	25598.1	25449.3	25329.4	25406.2	25506.9	25358.2	25430.2	25324.6	25406.2
10°	25199.8	25137.5	24959.9	24926.3	25012.7	25108.7	25007.9	25075.1	24979.1	25041.5
12.5°	24628.9	24532.9	24389.0	24345.8	24494.5	24624.1	24542.5	24504.1	24379.4	24532.9
15°	22426.5	22354.5	22680.8	23251.8	23765.2	23875.6	23789.2	23827.6	23568.5	23611.7
17.5°	18458.5	18324.1	18674.4	20027.4	21956.3	22973.5	22896.7	22647.2	22263.4	22349.7
20°	16774.3	16735.9	16697.5	17019.0	18367.3	21452.5	21558.1	20924.7	20377.7	20257.8
22.5°	15824.3	15809.9	15771.5	15843.5	16198.5	18180.2	19389.3	18803.9	18439.3	18405.7
25°	14955.8	14931.8	14816.7	14907.8	14907.8	15023.0	16572.8	16927.8	16606.4	16568.0
27.5°	14072.9	14029.8	14010.6	14053.8	13833.0	13055.7	13449.2	15181.3	15013.4	15023.0
30°	13118.1	13103.7	13050.9	13142.1	12460.8	11496.3	11246.8	13597.9	13631.5	13621.9
32.5°	11697.9	11760.2	12000.2	12100.9	10978.1	10181.7	9764.2	11765.0	12451.2	12436.8
35°	8497.5	8497.5	9279.6	10733.4	9620.3	9020.5	8795.0	9975.3	11285.2	11333.2
37.5°	6986.1	7010.1	7163.6	7825.8	8300.8	8089.7	8022.5	8396.7	9788.2	9865.0
40°	6285.6	6285.6	6285.6	6012.1	5997.7	7288.4	7250.0	7130.0	8454.3	8622.3
42.5°	5647.4	5661.8	5671.4	4980.5	4596.6	6300.0	6213.6	6031.3	7259.6	7456.3
45°	4990.1	5014.1	5042.8	4164.8	3996.9	4534.2	5258.8	5057.2	6079.2	6333.5
47.5°	3046.8	3085.2	3737.8	3531.4	3550.6	3497.8	4289.5	4256.0	4985.3	5345.1
50°	2058.4	2072.8	2135.2	2240.7	3046.8	2749.3	3037.2	3521.8	3785.7	4332.7
52.5°	1727.3	1751.3	1597.8	1453.8	2000.8	2149.6	2120.8	2615.0	2720.5	3397.1
55°	1213.9	1290.7	1218.7	1204.3	1137.2	1669.8	1607.4	2010.4	2077.6	2581.4
57.5°	124.8	143.9	249.5	897.3	743.7	945.2	1146.8	1473.0	1540.2	1904.9
60°	9.6	9.6	24.0	124.8	542.2	566.2	791.7	906.8	1036.4	1329.1
62.5°	0.0	4.8	9.6	19.2	86.4	302.3	398.2	475.0	623.8	858.9
65°	0.0	0.0	4.8	14.4	19.2	115.2	153.5	249.5	340.7	532.6
67.5°	0.0	0.0	4.8	9.6	14.4	28.8	52.8	91.2	182.3	302.3
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	57.6	81.6	163.1
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	28.8	38.4	57.6	81.6
75°	0.0	0.0	4.8	4.8	14.4	28.8	24.0	28.8	38.4	52.8
77.5°	0.0	0.0	4.8	9.6	14.4	28.8	24.0	28.8	28.8	33.6
80°	0.0	0.0	4.8	9.6	19.2	33.6	28.8	28.8	24.0	24.0
82.5°	0.0	0.0	4.8	14.4	19.2	43.2	43.2	38.4	19.2	14.4
85°	0.0	0.0	9.6	19.2	28.8	48.0	48.0	38.4	14.4	9.6
87.5°	0.0	0.0	9.6	14.4	24.0	33.6	48.0	38.4	14.4	4.8
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°
25929.2	0°	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2	25929.2
25847.6	2.5°	25977.1	25948.4	26044.3	26082.7	26135.5	25934.0	25809.2	25814.0	25583.7
25554.9	5°	25708.4	25713.2	25838.0	25828.4	25881.2	25770.8	25722.8	25641.3	25439.7
25185.4	7.5°	25367.8	25324.6	25444.5	25535.7	25401.4	25478.1	25367.8	25406.2	25286.2
24859.2	10°	25103.9	25003.1	25113.5	25175.8	25180.6	25103.9	24998.3	24897.6	24854.4
24350.6	12.5°	24518.5	24389.0	24576.1	24662.4	24648.1	24499.3	24379.4	24403.3	24264.2
23458.1	15°	23712.4	23717.2	23851.6	23933.1	23856.4	23822.8	23832.4	23774.8	23654.8
22225.0	17.5°	22479.3	22551.3	22906.3	23103.1	23146.2	23079.1	23045.5	22978.3	22858.3
20257.8	20°	20425.7	20857.5	21490.9	22100.2	22220.2	22201.0	22081.0	22052.3	21985.1
18309.7	22.5°	18621.6	18943.1	19677.2	20627.2	21116.6	21164.6	21020.7	20977.5	20905.5
16568.0	25°	16755.1	17100.6	17762.7	18794.3	19806.7	20013.0	19989.1	19859.5	19782.7
15023.0	27.5°	15181.3	15526.8	16126.6	17057.4	18141.8	18803.9	18866.3	18660.0	18655.2
13645.9	30°	13761.1	14236.1	14691.9	15450.0	16500.8	17494.0	17599.6	17455.6	17470.0
12384.0	32.5°	12647.9	13041.3	13430.0	13938.6	14811.9	15968.2	16380.9	16246.5	16193.7
11333.2	35°	11510.7	11779.4	12177.7	12643.1	13238.1	14384.8	15099.8	14999.0	14946.2
9913.0	37.5°	10215.2	10675.9	10963.8	11486.8	11952.2	12863.8	13871.4	13857.0	13746.7
8703.8	40°	8886.2	9370.8	9807.4	10335.2	10695.1	11419.6	12537.5	12532.7	12547.1
7451.5	42.5°	7681.8	8128.1	8655.8	9231.6	9577.1	10104.9	11304.4	11371.6	11453.2
6419.9	45°	6592.6	6995.7	7485.1	8185.6	8603.1	8905.4	9970.5	10277.6	10272.8
5498.7	47.5°	5613.8	5992.9	6405.5	7086.9	7619.4	7892.9	8775.8	9212.4	9183.6
4510.3	50°	4711.8	5047.6	5479.5	5973.7	6688.6	6928.5	7585.9	8161.6	8118.5
3593.8	52.5°	3790.5	4256.0	4620.6	5071.6	5824.9	6060.1	6568.7	7130.0	7096.5
2696.6	55°	2955.7	3406.7	3848.1	4236.8	4870.1	5220.4	5585.0	6160.8	6151.2
2111.2	57.5°	2235.9	2730.1	3147.6	3517.0	4020.8	4452.7	4745.4	5268.4	5335.5
1444.2	60°	1655.4	2034.4	2485.4	2898.1	3296.3	3742.6	3939.3	4452.7	4481.5
988.4	62.5°	1127.6	1545.0	1986.4	2360.7	2658.2	3118.8	3296.3	3718.6	3771.3
633.4	65°	782.1	1050.8	1554.6	1823.3	2188.0	2581.4	2758.9	3094.8	3200.4
364.7	67.5°	518.2	748.5	1213.9	1458.6	1818.5	2087.2	2312.7	2586.2	2701.4
230.3	70°	283.1	551.8	868.5	1151.6	1463.4	1722.5	1943.2	2164.0	2264.7
105.6	72.5°	191.9	369.5	604.6	911.6	1180.3	1434.6	1631.4	1794.5	1799.3
62.4	75°	96.0	249.5	460.6	705.3	921.2	1170.7	1348.3	1444.2	1329.1
38.4	77.5°	57.6	182.3	374.3	566.2	748.5	945.2	1046.0	1098.8	911.6
28.8	80°	33.6	129.5	292.7	451.0	518.2	695.7	791.7	806.1	609.4
19.2	82.5°	24.0	96.0	230.3	331.1	316.7	489.4	595.0	575.8	388.6
14.4	85°	14.4	67.2	143.9	206.3	191.9	321.5	345.5	355.1	225.5
9.6	87.5°	9.6	38.4	76.8	110.4	91.2	139.1	139.1	167.9	110.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25929.2
25286.2
25391.8
25084.7
24662.4
24144.2
23534.9
22805.6
21831.5
20886.3
19701.2
18645.6
17398.1
16198.5
14874.2
13837.8
12547.1
11410.0
10282.4
9193.2
8156.8
7168.4
6175.2
5306.7
4524.6
3780.9
3176.4
2687.0
2226.3
1756.1
1242.7
878.1
571.0
359.9
206.3
96.0
0.0

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