

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: P637879

Luminaire Tested: **IFLD-S-SA6B-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27760.6 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

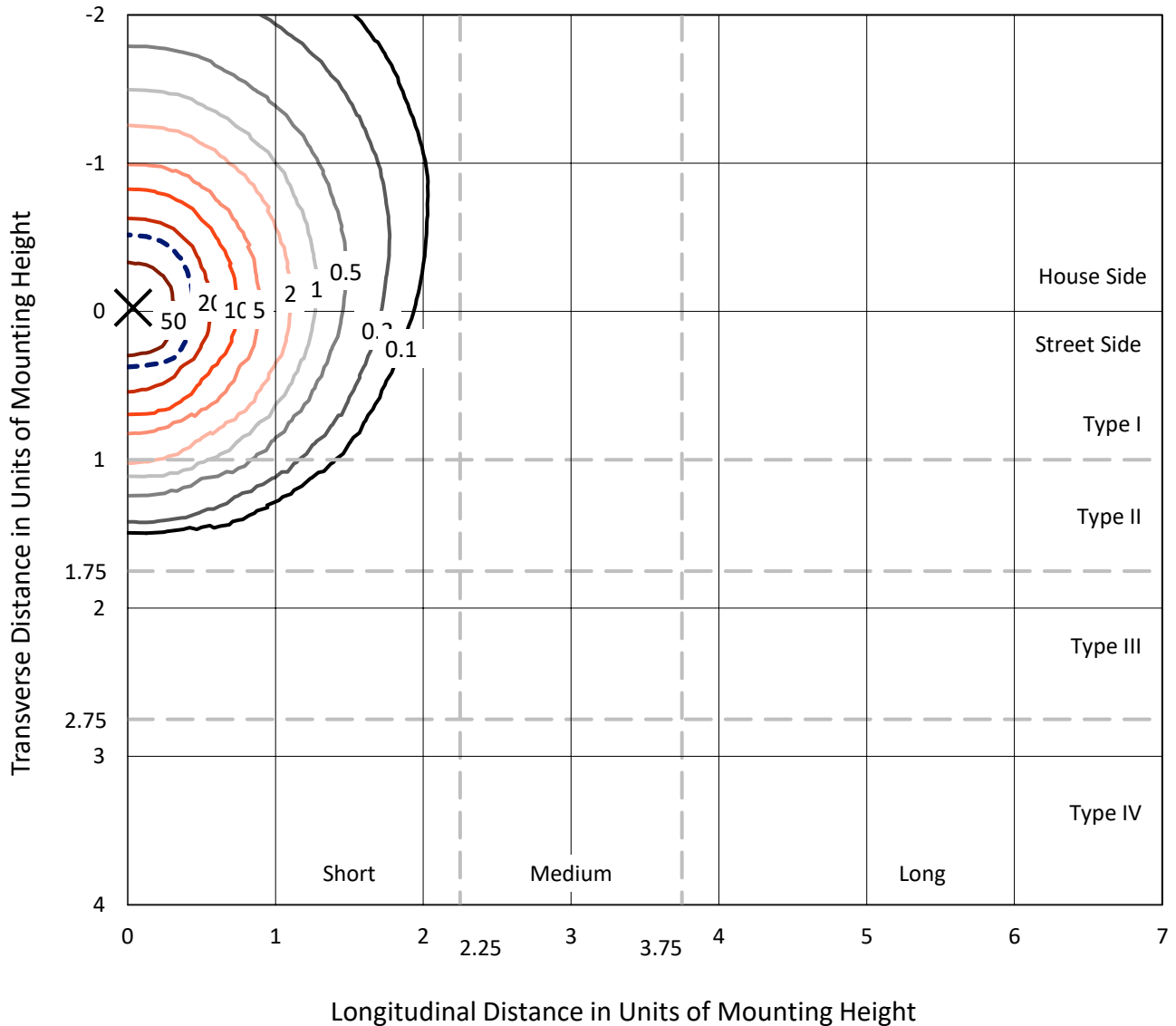
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

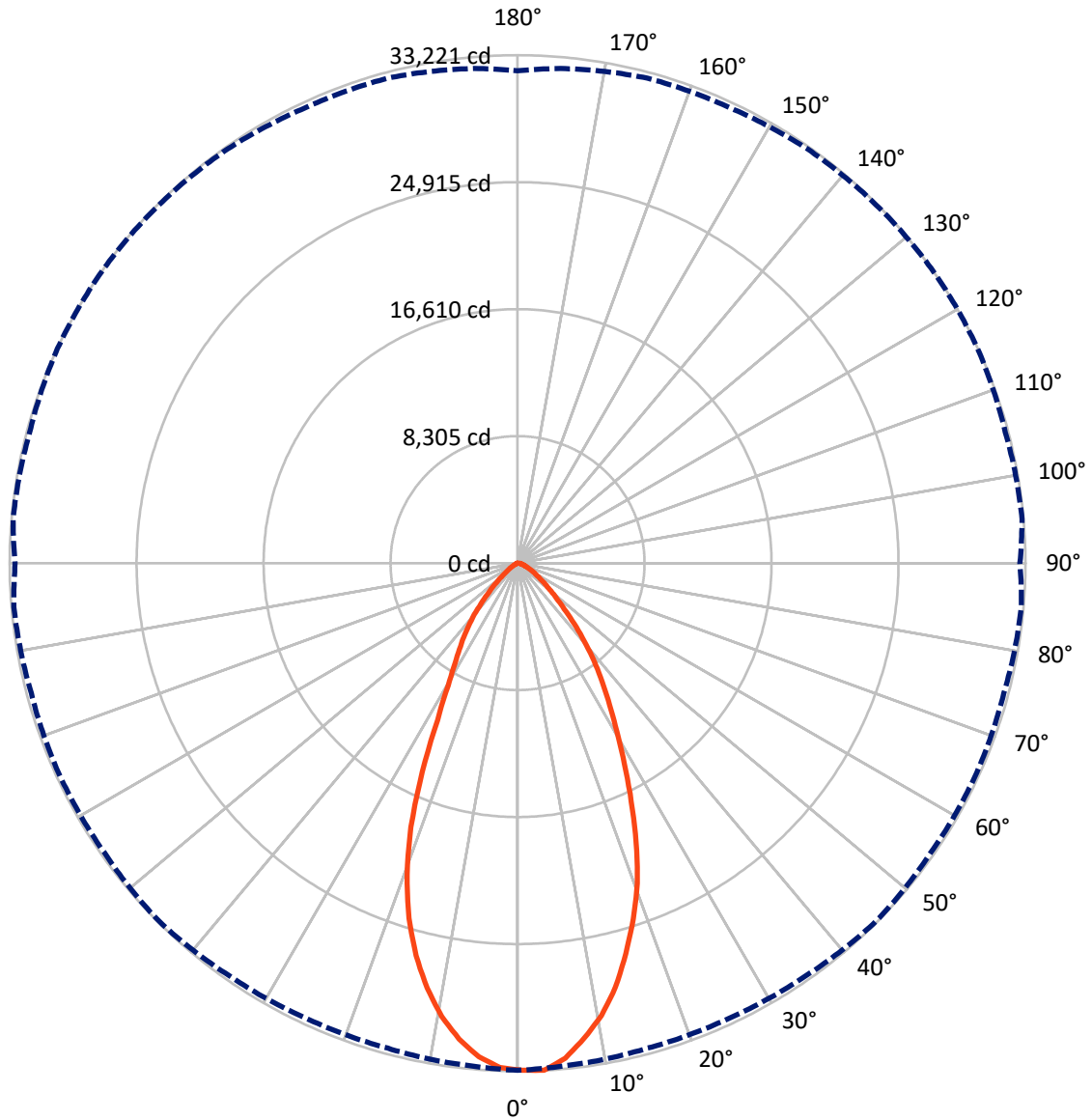
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 82.9 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	15752.4	0.0	15752.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12008.1	0.0	12008.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	27760.6	0.0	27760.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3011.7	10.8
10°-20°	7179.2	25.9
20°-30°	7311.9	26.3
30°-40°	5452.5	19.6
40°-50°	2848.5	10.3
50°-60°	1198.1	4.3
60°-70°	489.3	1.8
70°-80°	205.9	0.7
80°-90°	63.4	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°	27760.6	100.0
0°-180°	27760.6	100.0



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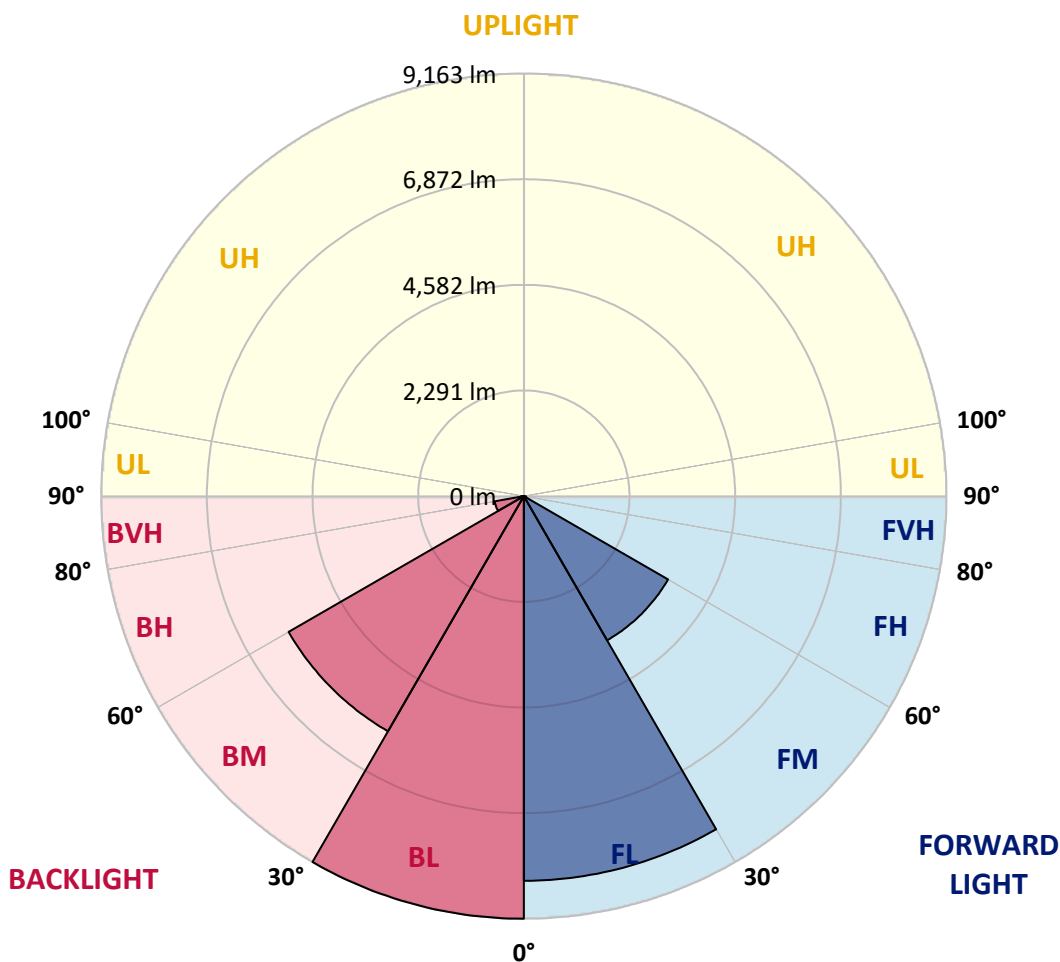
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8339.6	30.0			
FM (30°-60°)	3610.4	13.0			
FH (60°-80°)	52.2	0.2			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	9163.2	33.0	B5		
BM (30°-60°)	5888.7	21.2	B4/8500		
BH (60°-80°)	643.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	57.6	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°	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1
2.5°	33170.7	33035.2	32842.6	32824.8	32924.6	33142.2	33003.1	33010.2	32924.6	33070.9
5°	32650.1	32521.7	32389.8	32215.0	32361.2	32453.9	32382.6	32304.2	32193.6	32336.3
7.5°	31665.9	31594.5	31398.4	31320.0	31409.1	31512.5	31359.2	31337.8	31184.5	31369.9
10°	30161.0	30132.5	29939.9	29893.6	29972.0	30128.9	30061.2	30046.9	29950.6	29932.8
12.5°	28599.1	28488.6	28249.7	28235.4	28353.1	28588.4	28406.6	28231.8	28285.3	28331.7
15°	24576.7	24459.0	25051.0	25981.7	26470.2	26452.4	26505.9	26295.5	26231.3	26252.7
17.5°	19538.0	19338.3	19552.2	20992.9	23314.3	24662.3	24291.4	23838.5	23596.1	23435.6
20°	16863.5	16874.2	16835.0	17205.8	18653.6	21727.5	21638.3	20764.7	20447.3	20315.4
22.5°	15237.4	15176.8	15091.2	15208.9	15597.6	17402.0	18610.8	17808.5	17697.9	17551.7
25°	13643.4	13643.4	13540.0	13657.7	13768.2	13793.2	15005.6	15333.7	15119.7	15119.7
27.5°	12263.4	12192.1	12145.7	12199.2	12053.0	11350.5	11503.8	13183.4	13037.2	12948.1
30°	10894.1	10872.7	10794.2	10865.5	10323.5	9531.9	9210.9	11125.8	11279.2	11247.1
32.5°	8993.4	9079.0	9428.4	9539.0	8611.8	7973.5	7666.8	9235.9	9849.2	9824.3
35°	6112.1	6183.4	6582.8	7902.2	7139.1	6682.6	6593.5	7345.9	8355.1	8451.4
37.5°	4867.6	4856.9	4971.0	5206.3	5737.7	5627.1	5602.1	5798.3	6814.6	6857.4
40°	4011.7	3997.5	3993.9	3801.3	3669.4	4678.6	4610.8	4493.1	5373.9	5459.5
42.5°	3234.3	3248.6	3259.3	2838.5	2646.0	3608.8	3569.5	3448.3	4215.0	4314.8
45°	2539.0	2535.4	2556.8	2114.6	2061.1	2307.2	2667.3	2571.1	3180.8	3287.8
47.5°	1315.8	1362.2	1651.0	1636.8	1661.7	1636.8	2018.3	1993.4	2392.8	2563.9
50°	884.4	898.6	923.6	927.2	1308.7	1205.3	1369.3	1551.2	1676.0	1939.9
52.5°	684.7	695.4	631.2	592.0	802.3	891.5	898.6	1073.4	1169.6	1437.1
55°	381.6	427.9	460.0	463.6	442.2	659.7	656.1	795.2	870.1	1048.4
57.5°	49.9	60.6	92.7	299.5	296.0	367.3	460.0	577.7	620.5	766.7
60°	3.6	7.1	10.7	46.4	196.1	214.0	313.8	360.2	431.5	538.5
62.5°	0.0	0.0	3.6	10.7	39.2	124.8	164.0	189.0	253.2	353.0
65°	0.0	0.0	3.6	7.1	14.3	46.4	64.2	103.4	149.8	217.5
67.5°	0.0	0.0	3.6	7.1	10.7	17.8	28.5	46.4	78.5	131.9
70°	0.0	0.0	3.6	7.1	10.7	14.3	21.4	28.5	42.8	71.3
72.5°	0.0	0.0	3.6	3.6	7.1	17.8	17.8	21.4	28.5	39.2
75°	0.0	0.0	3.6	7.1	10.7	17.8	17.8	17.8	21.4	25.0
77.5°	0.0	0.0	3.6	7.1	10.7	17.8	14.3	17.8	17.8	17.8
80°	0.0	0.0	3.6	7.1	10.7	17.8	21.4	17.8	14.3	14.3
82.5°	0.0	0.0	3.6	10.7	10.7	25.0	25.0	25.0	10.7	10.7
85°	0.0	0.0	7.1	10.7	17.8	28.5	28.5	21.4	10.7	7.1
87.5°	0.0	0.0	3.6	7.1	7.1	14.3	21.4	17.8	7.1	3.6
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°
33167.1	0°	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1	33167.1
32856.9	2.5°	33120.8	33031.6	33199.2	33220.6	33149.3	33060.2	32853.3	32835.5	32475.3
32129.4	5°	32493.2	32347.0	32453.9	32525.3	32500.3	32404.0	32318.4	32240.0	31915.5
30949.1	7.5°	31323.5	31270.0	31320.0	31373.5	31476.9	31373.5	31337.8	31255.8	30934.8
29786.6	10°	30025.5	29925.7	30114.7	30089.7	30061.2	30032.6	29882.9	29897.1	29519.1
28203.3	12.5°	28431.5	28263.9	28445.8	28467.2	28445.8	28345.9	28178.3	28249.7	27903.8
26063.7	15°	26288.4	26270.5	26402.5	26488.1	26548.7	26441.7	26384.7	26420.3	26213.5
23310.8	17.5°	23656.7	23888.5	24320.0	24466.2	24469.7	24580.3	24548.2	24505.4	24352.0
20261.9	20°	20561.4	21007.2	21670.4	22351.5	22547.7	22454.9	22412.2	22490.6	22262.4
17398.4	22.5°	17705.1	18086.6	18856.9	19851.8	20425.9	20483.0	20472.3	20404.5	20315.4
15105.5	25°	15280.2	15619.0	16357.1	17266.5	18368.3	18532.4	18539.5	18518.1	18439.7
13026.5	27.5°	13233.3	13643.4	14049.9	14863.0	16036.2	16713.7	16628.1	16603.2	16574.7
11272.0	30°	11379.0	11896.1	12277.7	12784.0	13836.0	14752.4	14841.6	14798.8	14731.0
9820.7	32.5°	9909.8	10216.5	10701.5	11043.8	11799.8	12837.5	13179.8	13147.8	13087.1
8512.0	35°	8633.2	8754.5	9136.0	9517.6	10020.4	11026.0	11532.4	11461.0	11450.3
6935.8	37.5°	7110.6	7517.1	7727.5	8112.6	8465.6	9246.6	9945.5	9913.4	9917.0
5577.2	40°	5741.2	5976.6	6393.8	6718.3	7042.8	7613.4	8390.7	8412.1	8405.0
4318.4	42.5°	4407.5	4635.8	5074.4	5427.4	5716.3	6069.3	6811.0	6836.0	6868.1
3362.7	45°	3441.2	3587.4	3908.3	4275.6	4582.3	4796.2	5359.7	5520.1	5523.7
2606.7	47.5°	2670.9	2838.5	3066.7	3419.8	3719.3	3872.6	4282.7	4500.3	4489.6
2000.5	50°	2096.8	2250.1	2435.6	2713.7	3038.2	3159.5	3462.6	3676.5	3665.8
1508.4	52.5°	1604.7	1800.8	1964.9	2178.8	2496.2	2599.6	2817.1	3063.2	3027.5
1105.5	55°	1216.0	1415.7	1569.0	1747.3	2036.2	2168.1	2317.9	2514.0	2521.1
855.8	57.5°	916.5	1123.3	1262.4	1444.2	1661.7	1807.9	1922.1	2132.5	2128.9
584.8	60°	656.1	834.4	1002.0	1191.0	1358.6	1526.2	1604.7	1804.4	1811.5
413.7	62.5°	474.3	641.9	802.3	966.4	1116.2	1280.2	1351.5	1508.4	1529.8
271.0	65°	331.6	449.3	634.7	759.6	927.2	1048.4	1141.1	1276.6	1301.6
160.5	67.5°	214.0	324.5	502.8	613.3	766.7	870.1	966.4	1073.4	1105.5
103.4	70°	128.4	246.1	374.4	492.1	631.2	723.9	816.6	909.3	927.2
49.9	72.5°	82.0	171.2	271.0	399.4	506.4	606.2	688.2	756.0	702.5
32.1	75°	46.4	117.7	214.0	313.8	410.1	506.4	574.1	609.8	488.5
21.4	77.5°	28.5	85.6	174.7	253.2	317.4	406.5	449.3	470.7	349.5
14.3	80°	17.8	64.2	146.2	206.8	206.8	299.5	349.5	367.3	253.2
10.7	82.5°	14.3	46.4	114.1	156.9	139.1	224.7	274.6	278.1	178.3
7.1	85°	10.7	35.7	71.3	103.4	96.3	156.9	160.5	178.3	117.7
7.1	87.5°	7.1	21.4	42.8	60.6	53.5	74.9	85.6	96.3	64.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33167.1
32193.6
31655.2
30867.1
29390.8
27803.9
25963.9
24123.8
22098.3
20144.2
18175.8
16407.1
14645.5
12926.7
11332.7
9802.9
8280.2
6761.1
5431.0
4450.3
3665.8
3031.1
2521.1
2121.8
1793.7
1522.7
1294.4
1101.9
912.9
652.6
463.6
328.1
235.4
164.0
107.0
57.1
0.0

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