

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: P638049

Luminaire Tested: **IFLD-S-SA3C-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12001.3 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

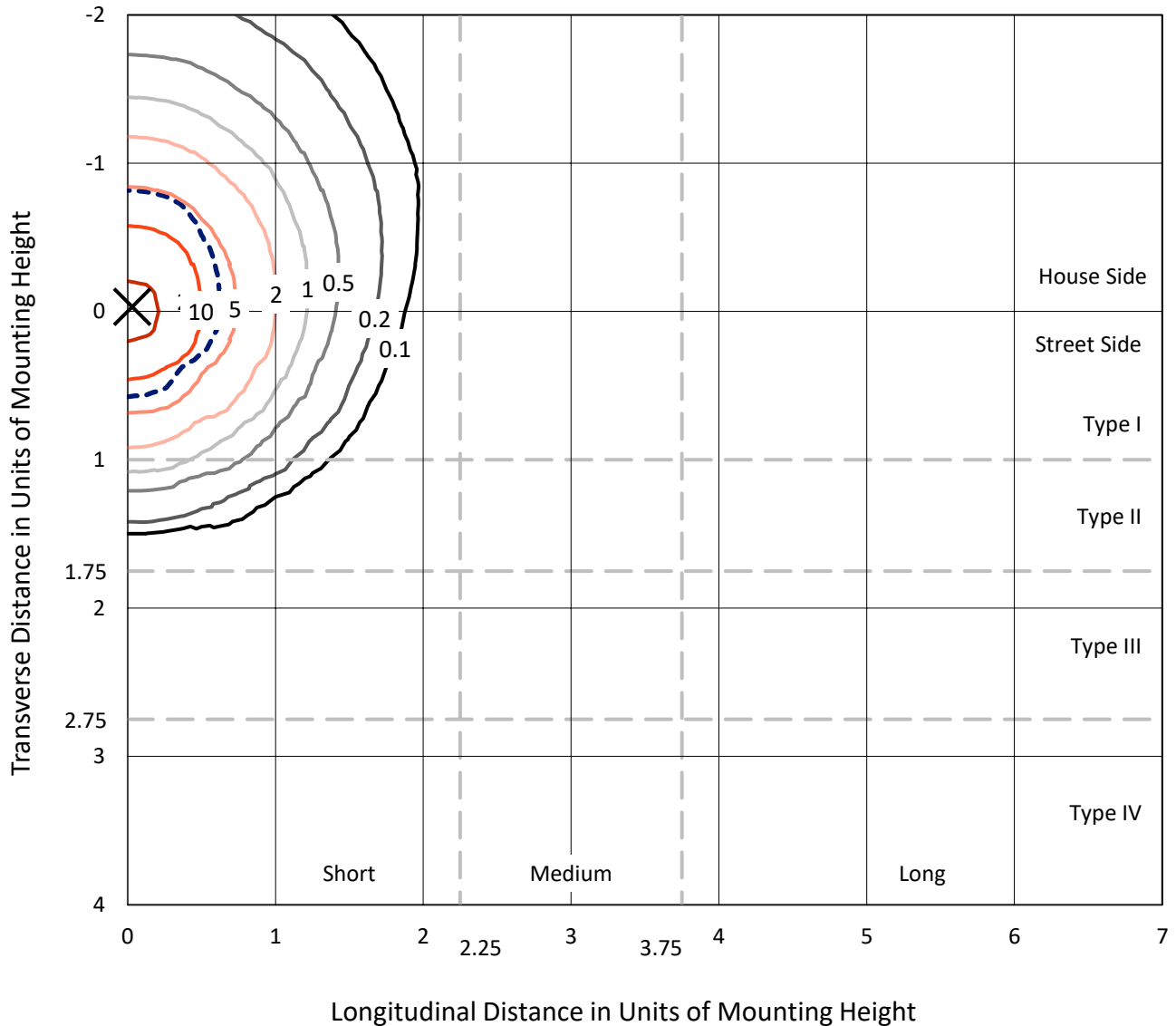
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

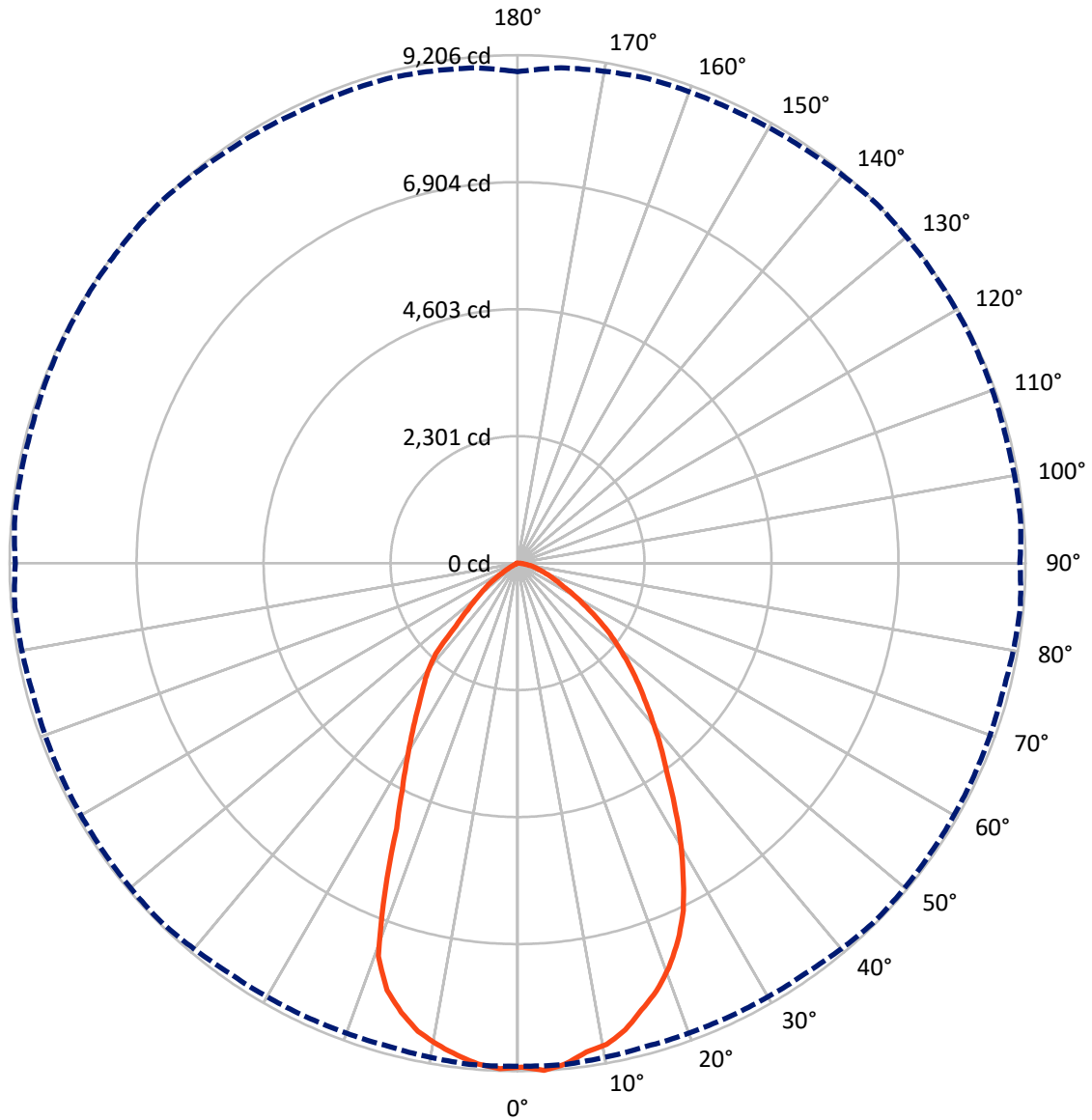
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.8 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	7107.8	0.0	7107.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4893.5	0.0	4893.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	12001.3	0.0	12001.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.5	7.1
10°-20°	2296.8	19.1
20°-30°	2801.1	23.3
30°-40°	2557.4	21.3
40°-50°	1848.2	15.4
50°-60°	1009.1	8.4
60°-70°	417.2	3.5
70°-80°	169.0	1.4
80°-90°	46.0	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°	12001.3	100.0
0°-180°	12001.3	100.0



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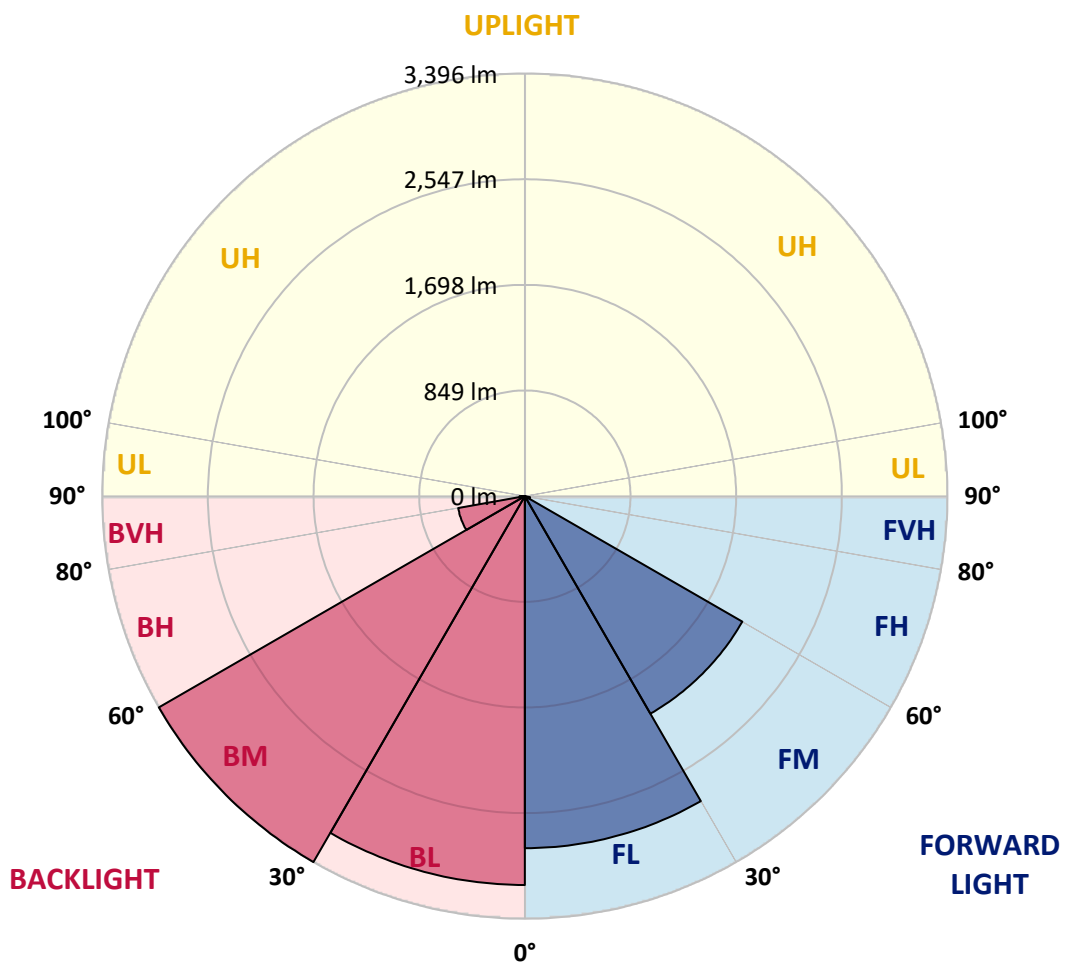
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2829.2	23.6			
FM (30°-60°)	2018.4	16.8			
FH (60°-80°)	42.3	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	3125.3	26.0	B4/5000		
BM (30°-60°)	3396.3	28.3	B3/5000		
BH (60°-80°)	543.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	42.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0
2.5°	9116.1	9127.9	9063.7	9070.4	9082.3	9168.5	9146.5	9126.2	9097.5	9146.5
5°	9104.2	9111.0	9043.4	9019.7	9029.9	9107.6	9036.6	9036.6	9029.9	9021.4
7.5°	9013.0	9016.3	8964.0	8921.7	8948.7	8984.2	8931.8	8957.2	8920.0	8948.7
10°	8876.1	8854.1	8791.6	8779.7	8810.2	8844.0	8808.5	8832.1	8798.3	8820.3
12.5°	8675.0	8641.2	8590.5	8575.2	8627.6	8673.3	8644.5	8631.0	8587.1	8641.2
15°	7899.2	7873.9	7988.8	8189.9	8370.8	8409.6	8379.2	8392.7	8301.5	8316.7
17.5°	6501.6	6454.3	6577.6	7054.2	7733.6	8091.9	8064.9	7977.0	7841.8	7872.2
20°	5908.4	5894.8	5881.3	5994.6	6469.5	7556.2	7593.3	7370.3	7177.6	7135.3
22.5°	5573.7	5568.7	5555.2	5580.5	5705.6	6403.6	6829.4	6623.3	6494.8	6483.0
25°	5267.8	5259.4	5218.8	5250.9	5250.9	5291.5	5837.4	5962.5	5849.2	5835.7
27.5°	4956.9	4941.7	4934.9	4950.1	4872.4	4598.6	4737.2	5347.3	5288.1	5291.5
30°	4620.6	4615.5	4596.9	4629.0	4389.0	4049.3	3961.4	4789.6	4801.4	4798.0
32.5°	4120.3	4142.3	4226.8	4262.3	3866.8	3586.3	3439.2	4144.0	4385.6	4380.6
35°	2993.1	2993.1	3268.5	3780.6	3388.5	3177.3	3097.8	3513.6	3975.0	3991.9
37.5°	2460.7	2469.1	2523.2	2756.5	2923.8	2849.4	2825.7	2957.6	3447.7	3474.7
40°	2213.9	2213.9	2213.9	2117.6	2112.5	2567.2	2553.6	2511.4	2977.8	3037.0
42.5°	1989.2	1994.2	1997.6	1754.3	1619.1	2219.0	2188.6	2124.4	2557.0	2626.3
45°	1757.6	1766.1	1776.2	1467.0	1407.8	1597.1	1852.3	1781.3	2141.3	2230.8
47.5°	1073.2	1086.7	1316.5	1243.9	1250.6	1232.0	1510.9	1499.1	1755.9	1882.7
50°	725.0	730.1	752.1	789.2	1073.2	968.4	1069.8	1240.5	1333.4	1526.1
52.5°	608.4	616.9	562.8	512.1	704.7	757.1	747.0	921.1	958.3	1196.5
55°	427.6	454.6	429.3	424.2	400.5	588.1	566.2	708.1	731.8	909.2
57.5°	43.9	50.7	87.9	316.0	262.0	332.9	403.9	518.8	542.5	670.9
60°	3.4	3.4	8.5	43.9	191.0	199.4	278.9	319.4	365.0	468.1
62.5°	0.0	1.7	3.4	6.8	30.4	106.5	140.3	167.3	219.7	302.5
65°	0.0	0.0	1.7	5.1	6.8	40.6	54.1	87.9	120.0	187.6
67.5°	0.0	0.0	1.7	3.4	5.1	10.1	18.6	32.1	64.2	106.5
70°	0.0	0.0	1.7	3.4	5.1	8.5	13.5	20.3	28.7	57.5
72.5°	0.0	0.0	1.7	1.7	3.4	8.5	10.1	13.5	20.3	28.7
75°	0.0	0.0	1.7	1.7	5.1	10.1	8.5	10.1	13.5	18.6
77.5°	0.0	0.0	1.7	3.4	5.1	10.1	8.5	10.1	10.1	11.8
80°	0.0	0.0	1.7	3.4	6.8	11.8	10.1	10.1	8.5	8.5
82.5°	0.0	0.0	1.7	5.1	6.8	15.2	15.2	13.5	6.8	5.1
85°	0.0	0.0	3.4	6.8	10.1	16.9	16.9	13.5	5.1	3.4
87.5°	0.0	0.0	3.4	5.1	8.5	11.8	16.9	13.5	5.1	1.7
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°
9133.0	0°	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0	9133.0
9104.2	2.5°	9149.9	9139.7	9173.5	9187.0	9205.6	9134.6	9090.7	9092.4	9011.3
9001.1	5°	9055.2	9056.9	9100.8	9097.5	9116.1	9077.2	9060.3	9031.6	8960.6
8871.0	7.5°	8935.2	8920.0	8962.3	8994.4	8947.1	8974.1	8935.2	8948.7	8906.5
8756.1	10°	8842.3	8806.8	8845.7	8867.6	8869.3	8842.3	8805.1	8769.6	8754.4
8576.9	12.5°	8636.1	8590.5	8656.4	8686.8	8681.7	8629.3	8587.1	8595.5	8546.5
8262.6	15°	8352.2	8353.9	8401.2	8429.9	8402.9	8391.0	8394.4	8374.1	8331.9
7828.3	17.5°	7917.8	7943.2	8068.2	8137.5	8152.7	8129.1	8117.2	8093.6	8051.3
7135.3	20°	7194.5	7346.6	7569.7	7784.3	7826.6	7819.8	7777.6	7767.4	7743.7
6449.2	22.5°	6559.0	6672.3	6930.8	7265.5	7437.9	7454.8	7404.1	7388.8	7363.5
5835.7	25°	5901.6	6023.3	6256.5	6619.9	6976.5	7049.1	7040.7	6995.1	6968.0
5291.5	27.5°	5347.3	5469.0	5680.2	6008.1	6390.0	6623.3	6645.2	6572.6	6570.9
4806.5	30°	4847.0	5014.3	5174.9	5441.9	5812.0	6161.9	6199.1	6148.4	6153.4
4362.0	32.5°	4454.9	4593.5	4730.4	4909.6	5217.1	5624.4	5769.8	5722.5	5703.9
3991.9	35°	4054.4	4149.0	4289.3	4453.2	4662.8	5066.7	5318.5	5283.1	5264.5
3491.6	37.5°	3598.1	3760.3	3861.7	4045.9	4209.9	4531.0	4885.9	4880.8	4842.0
3065.7	40°	3129.9	3300.6	3454.4	3640.3	3767.1	4022.3	4416.1	4414.4	4419.4
2624.6	42.5°	2705.7	2862.9	3048.8	3251.6	3373.3	3559.2	3981.7	4005.4	4034.1
2261.3	45°	2322.1	2464.1	2636.5	2883.2	3030.2	3136.7	3511.9	3620.1	3618.4
1936.8	47.5°	1977.3	2110.9	2256.2	2496.2	2683.8	2780.1	3091.1	3244.9	3234.7
1588.6	50°	1659.6	1777.9	1930.0	2104.1	2355.9	2440.4	2671.9	2874.8	2859.5
1265.8	52.5°	1335.1	1499.1	1627.5	1786.4	2051.7	2134.5	2313.7	2511.4	2499.6
949.8	55°	1041.1	1199.9	1355.4	1492.3	1715.4	1838.8	1967.2	2170.0	2166.6
743.6	57.5°	787.6	961.6	1108.7	1238.8	1416.3	1568.4	1671.4	1855.7	1879.3
508.7	60°	583.1	716.6	875.4	1020.8	1161.1	1318.2	1387.5	1568.4	1578.5
348.1	62.5°	397.2	544.2	699.7	831.5	936.3	1098.5	1161.1	1309.8	1328.4
223.1	65°	275.5	370.1	547.6	642.2	770.7	909.2	971.8	1090.1	1127.3
128.4	67.5°	182.5	263.6	427.6	513.8	640.5	735.2	814.6	910.9	951.5
81.1	70°	99.7	194.4	305.9	405.6	515.5	606.7	684.5	762.2	797.7
37.2	72.5°	67.6	130.1	212.9	321.1	415.7	505.3	574.6	632.1	633.8
22.0	75°	33.8	87.9	162.2	248.4	324.5	412.4	474.9	508.7	468.1
13.5	77.5°	20.3	64.2	131.8	199.4	263.6	332.9	368.4	387.0	321.1
10.1	80°	11.8	45.6	103.1	158.9	182.5	245.1	278.9	283.9	214.6
6.8	82.5°	8.5	33.8	81.1	116.6	111.5	172.4	209.6	202.8	136.9
5.1	85°	5.1	23.7	50.7	72.7	67.6	113.2	121.7	125.1	79.4
3.4	87.5°	3.4	13.5	27.0	38.9	32.1	49.0	49.0	59.2	38.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9133.0
8906.5
8943.7
8835.5
8686.8
8504.3
8289.6
8032.7
7689.7
7356.7
6939.3
6567.5
6128.1
5705.6
5239.1
4874.1
4419.4
4018.9
3621.7
3238.1
2873.1
2524.9
2175.1
1869.2
1593.7
1331.7
1118.8
946.4
784.2
618.6
437.7
309.3
201.1
126.8
72.7
33.8
0.0

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