

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: P638161

Luminaire Tested: **IFLD-S-SA2D-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638161  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12029.7 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

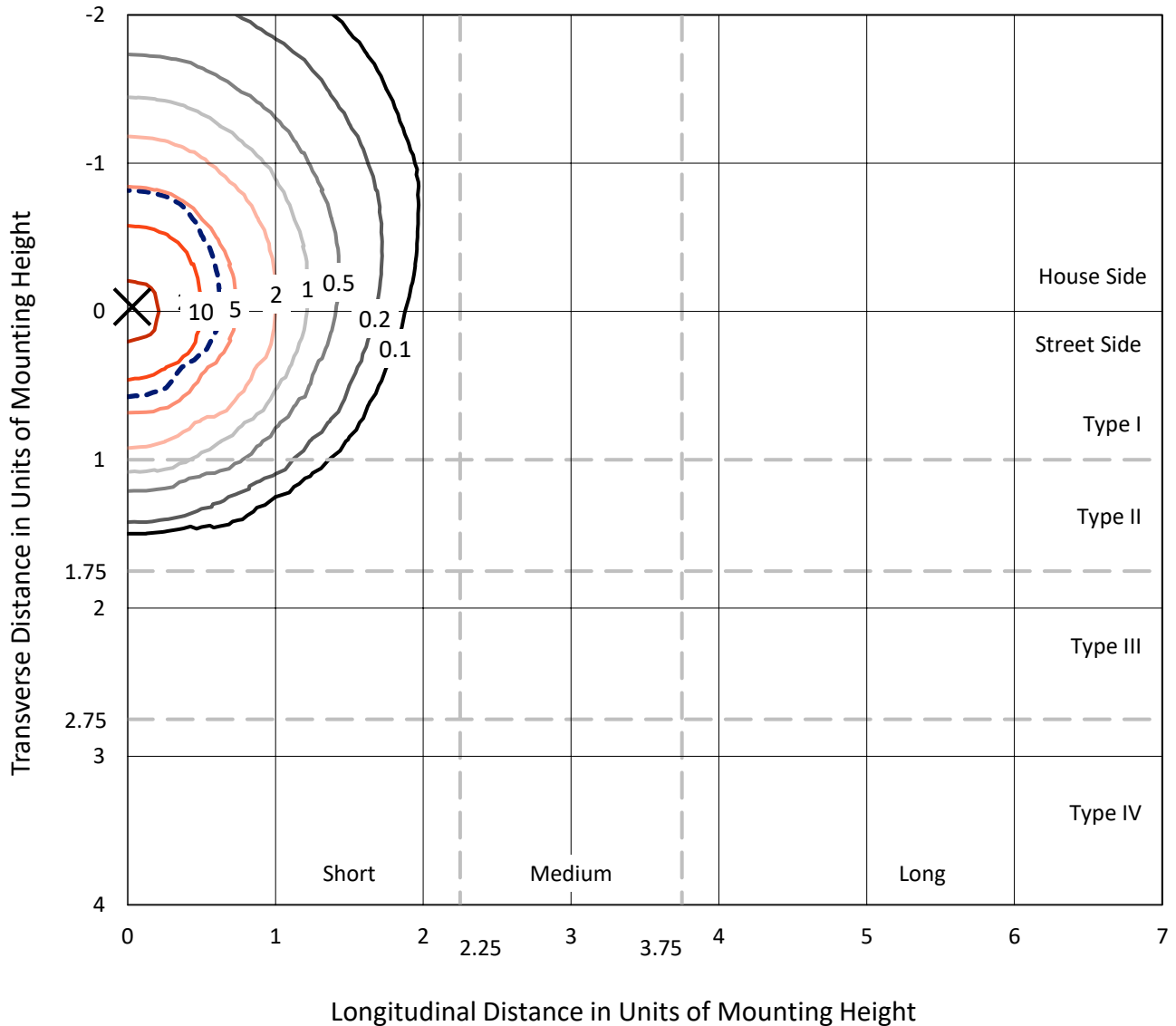
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

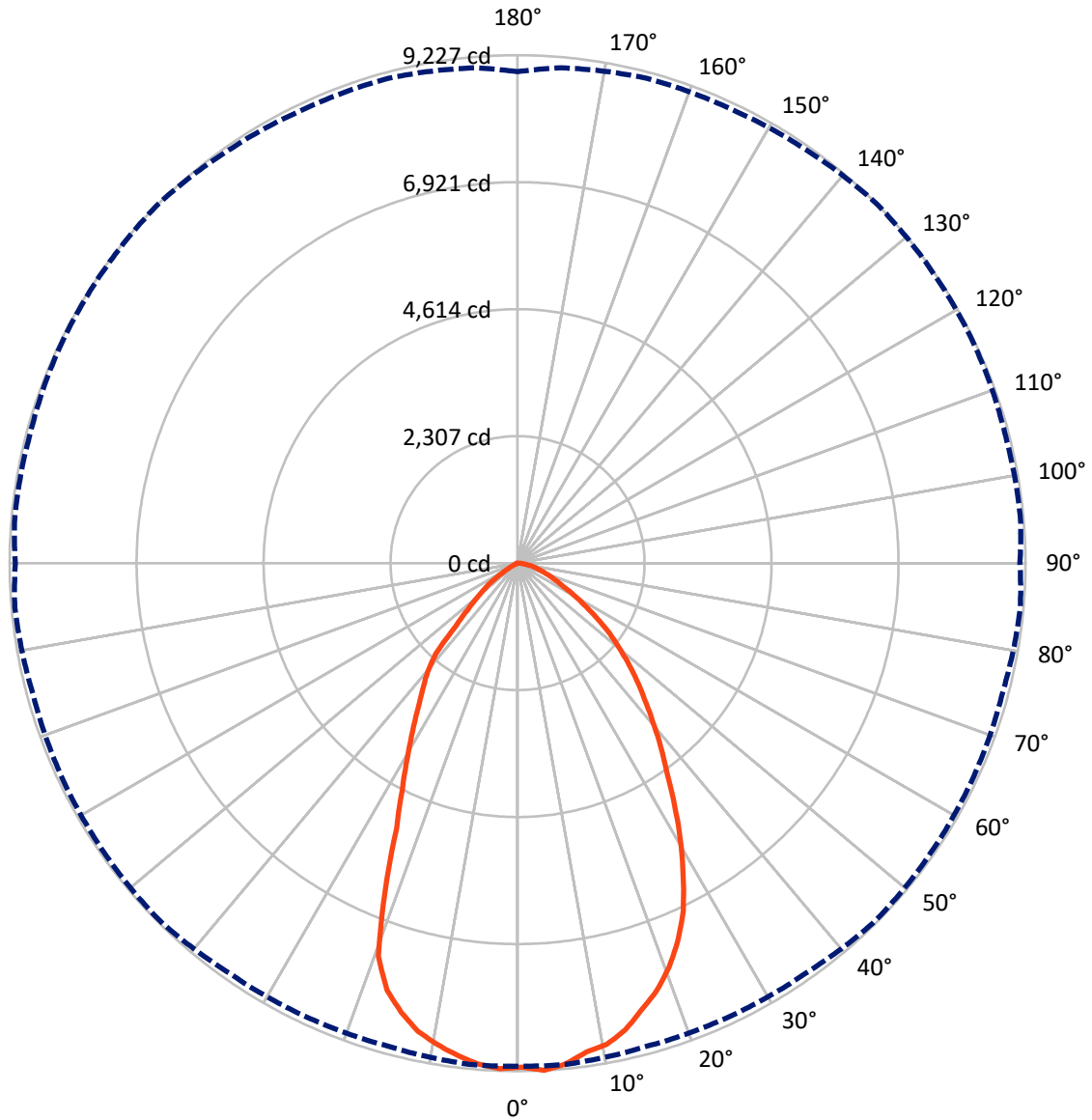
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.9 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
<b>House Side</b>	Lumens	7124.6	0.0	7124.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4905.1	0.0	4905.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	12029.7	0.0	12029.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.5	7.1
10°-20°	2302.3	19.1
20°-30°	2807.7	23.3
30°-40°	2563.4	21.3
40°-50°	1852.5	15.4
50°-60°	1011.5	8.4
60°-70°	418.2	3.5
70°-80°	169.4	1.4
80°-90°	46.1	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°	12029.7	100.0
0°-180°	12029.7	100.0



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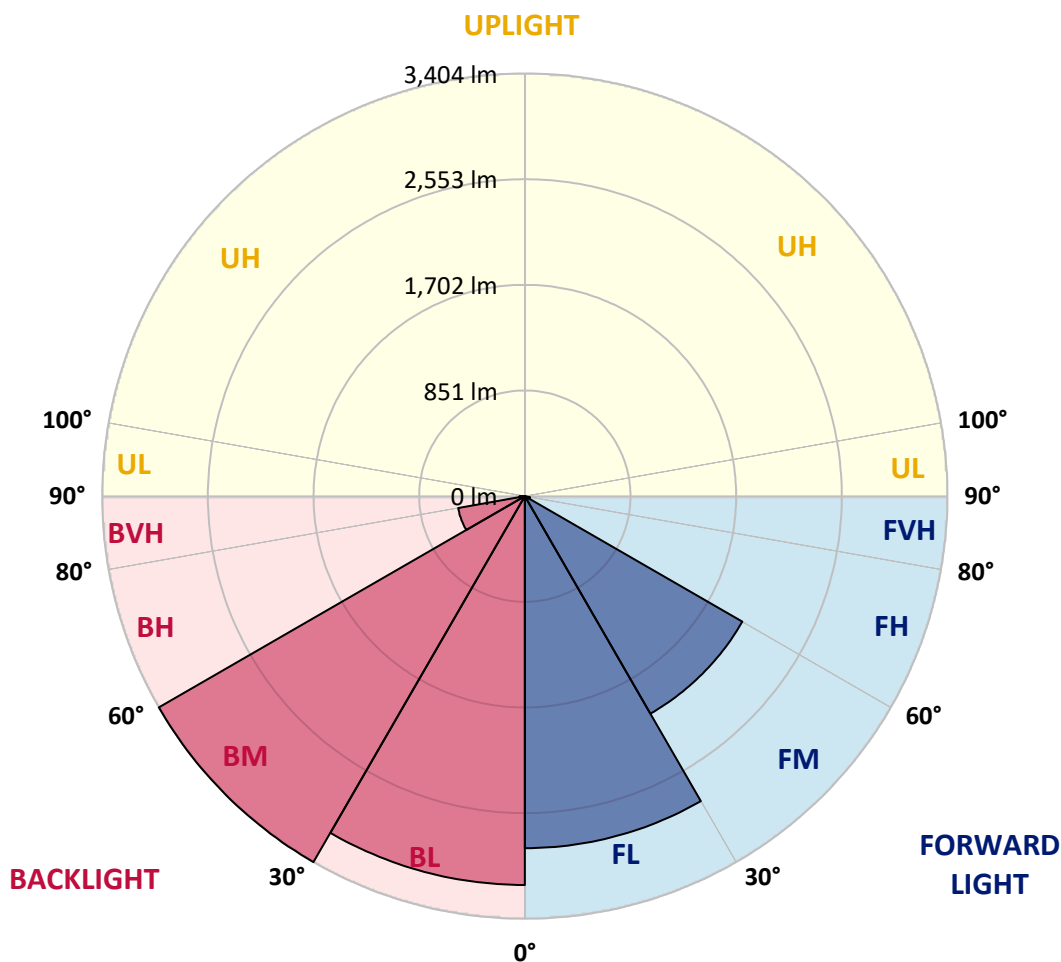
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2835.8	23.6			
FM (30°-60°)	2023.2	16.8			
FH (60°-80°)	42.4	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	3132.7	26.0	B4/5000		
BM (30°-60°)	3404.3	28.3	B3/5000		
BH (60°-80°)	545.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	42.4	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°	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5
2.5°	9137.6	9149.5	9085.1	9091.9	9103.7	9190.1	9168.1	9147.8	9119.0	9168.1
5°	9125.7	9132.5	9064.8	9041.0	9051.2	9129.1	9058.0	9058.0	9051.2	9042.7
7.5°	9034.3	9037.7	8985.1	8942.8	8969.9	9005.5	8953.0	8978.4	8941.1	8969.9
10°	8897.1	8875.0	8812.4	8800.5	8831.0	8864.9	8829.3	8853.0	8819.1	8841.2
12.5°	8695.5	8661.6	8610.8	8595.5	8648.0	8693.8	8665.0	8651.4	8607.4	8661.6
15°	7917.9	7892.5	8007.7	8209.3	8390.5	8429.5	8399.0	8412.6	8321.1	8336.3
17.5°	6516.9	6469.5	6593.2	7070.9	7751.9	8111.0	8083.9	7995.8	7860.3	7890.8
20°	5922.3	5908.8	5895.2	6008.7	6484.8	7574.0	7611.3	7387.7	7194.6	7152.2
22.5°	5586.9	5581.8	5568.3	5593.7	5719.1	6418.7	6845.6	6638.9	6510.2	6498.3
25°	5280.3	5271.8	5231.2	5263.4	5263.4	5304.0	5851.2	5976.5	5863.0	5849.5
27.5°	4968.6	4953.3	4946.6	4961.8	4883.9	4609.5	4748.4	5359.9	5300.6	5304.0
30°	4631.5	4626.4	4607.8	4640.0	4399.4	4058.9	3970.8	4800.9	4812.7	4809.4
32.5°	4130.0	4152.1	4236.8	4272.3	3875.9	3594.7	3447.4	4153.8	4396.0	4390.9
35°	3000.1	3000.1	3276.3	3789.5	3396.5	3184.8	3105.2	3521.9	3984.4	4001.3
37.5°	2466.5	2475.0	2529.2	2763.0	2930.7	2856.1	2832.4	2964.6	3455.8	3482.9
40°	2219.2	2219.2	2219.2	2122.6	2117.5	2573.2	2559.7	2517.3	2984.9	3044.2
42.5°	1993.9	1999.0	2002.3	1758.4	1622.9	2224.3	2193.8	2129.4	2563.1	2632.5
45°	1761.8	1770.3	1780.4	1470.4	1411.1	1600.9	1856.7	1785.5	2146.3	2236.1
47.5°	1075.7	1089.3	1319.7	1246.8	1253.6	1234.9	1514.5	1502.6	1760.1	1887.2
50°	726.7	731.8	753.8	791.1	1075.7	970.7	1072.3	1243.4	1336.6	1529.7
52.5°	609.9	618.3	564.1	513.3	706.4	758.9	748.8	923.2	960.5	1199.4
55°	428.6	455.7	430.3	425.2	401.5	589.5	567.5	709.8	733.5	911.4
57.5°	44.0	50.8	88.1	316.8	262.6	333.7	404.9	520.1	543.8	672.5
60°	3.4	3.4	8.5	44.0	191.4	199.9	279.5	320.2	365.9	469.2
62.5°	0.0	1.7	3.4	6.8	30.5	106.7	140.6	167.7	220.2	303.2
65°	0.0	0.0	1.7	5.1	6.8	40.7	54.2	88.1	120.3	188.0
67.5°	0.0	0.0	1.7	3.4	5.1	10.2	18.6	32.2	64.4	106.7
70°	0.0	0.0	1.7	3.4	5.1	8.5	13.6	20.3	28.8	57.6
72.5°	0.0	0.0	1.7	1.7	3.4	8.5	10.2	13.6	20.3	28.8
75°	0.0	0.0	1.7	1.7	5.1	10.2	8.5	10.2	13.6	18.6
77.5°	0.0	0.0	1.7	3.4	5.1	10.2	8.5	10.2	10.2	11.9
80°	0.0	0.0	1.7	3.4	6.8	11.9	10.2	10.2	8.5	8.5
82.5°	0.0	0.0	1.7	5.1	6.8	15.2	15.2	13.6	6.8	5.1
85°	0.0	0.0	3.4	6.8	10.2	16.9	16.9	13.6	5.1	3.4
87.5°	0.0	0.0	3.4	5.1	8.5	11.9	16.9	13.6	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°
9154.5	0°	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5	9154.5
9125.7	2.5°	9171.5	9161.3	9195.2	9208.8	9227.4	9156.2	9112.2	9113.9	9032.6
9022.4	5°	9076.6	9078.3	9122.4	9119.0	9137.6	9098.6	9081.7	9052.9	8981.8
8892.0	7.5°	8956.3	8941.1	8983.4	9015.6	8968.2	8995.3	8956.3	8969.9	8927.5
8776.8	10°	8863.2	8827.6	8866.6	8888.6	8890.3	8863.2	8825.9	8790.3	8775.1
8597.2	12.5°	8656.5	8610.8	8676.8	8707.3	8702.2	8649.7	8607.4	8615.8	8566.7
8282.1	15°	8371.9	8373.6	8421.0	8449.8	8422.7	8410.9	8414.3	8393.9	8351.6
7846.8	17.5°	7936.5	7961.9	8087.3	8156.8	8172.0	8148.3	8136.4	8112.7	8070.4
7152.2	20°	7211.5	7364.0	7587.6	7802.7	7845.1	7838.3	7795.9	7785.8	7762.1
6464.4	22.5°	6574.5	6688.0	6947.2	7282.6	7455.4	7472.4	7421.6	7406.3	7380.9
5849.5	25°	5915.6	6037.5	6271.3	6635.5	6993.0	7065.8	7057.3	7011.6	6984.5
5304.0	27.5°	5359.9	5481.9	5693.6	6022.3	6405.1	6638.9	6660.9	6588.1	6586.4
4817.8	30°	4858.5	5026.2	5187.1	5454.8	5825.8	6176.4	6213.7	6162.9	6168.0
4372.3	32.5°	4465.5	4604.4	4741.6	4921.2	5229.5	5637.7	5783.4	5736.0	5717.4
4001.3	35°	4064.0	4158.8	4299.5	4463.8	4673.8	5078.7	5331.1	5295.5	5276.9
3499.9	37.5°	3606.6	3769.2	3870.9	4055.5	4219.8	4541.7	4897.4	4892.4	4853.4
3073.0	40°	3137.3	3308.4	3462.6	3648.9	3776.0	4031.8	4426.5	4424.8	4429.9
2630.8	42.5°	2712.1	2869.7	3056.0	3259.3	3381.3	3567.6	3991.1	4014.9	4043.7
2266.6	45°	2327.6	2469.9	2642.7	2890.0	3037.4	3144.1	3520.2	3628.6	3626.9
1941.4	47.5°	1982.0	2115.8	2261.5	2502.1	2690.1	2786.7	3098.4	3252.5	3242.4
1592.4	50°	1663.5	1782.1	1934.6	2109.1	2361.5	2446.2	2678.3	2881.5	2866.3
1268.8	52.5°	1338.3	1502.6	1631.4	1790.6	2056.6	2139.6	2319.1	2517.3	2505.5
952.0	55°	1043.5	1202.8	1358.6	1495.8	1719.4	1843.1	1971.9	2175.1	2171.7
745.4	57.5°	789.4	963.9	1111.3	1241.7	1419.6	1572.1	1675.4	1860.0	1883.8
509.9	60°	584.4	718.3	877.5	1023.2	1163.8	1321.3	1390.8	1572.1	1582.2
349.0	62.5°	398.1	545.5	701.3	833.5	938.5	1101.1	1163.8	1312.9	1331.5
223.6	65°	276.1	371.0	548.9	643.7	772.5	911.4	974.1	1092.7	1129.9
128.7	67.5°	183.0	264.3	428.6	515.0	642.0	736.9	816.5	913.1	953.7
81.3	70°	99.9	194.8	306.6	406.6	516.7	608.2	686.1	764.0	799.6
37.3	72.5°	67.8	130.4	213.4	321.9	416.7	506.5	576.0	633.6	635.3
22.0	75°	33.9	88.1	162.6	249.0	325.3	413.3	476.0	509.9	469.2
13.6	77.5°	20.3	64.4	132.1	199.9	264.3	333.7	369.3	387.9	321.9
10.2	80°	11.9	45.7	103.3	159.2	183.0	245.6	279.5	284.6	215.1
6.8	82.5°	8.5	33.9	81.3	116.9	111.8	172.8	210.1	203.3	137.2
5.1	85°	5.1	23.7	50.8	72.8	67.8	113.5	122.0	125.4	79.6
3.4	87.5°	3.4	13.6	27.1	39.0	32.2	49.1	49.1	59.3	39.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9154.5
8927.5
8964.8
8856.4
8707.3
8524.4
8309.2
8051.7
7707.8
7374.1
6955.7
6583.0
6142.6
5719.1
5251.5
4885.6
4429.9
4028.4
3630.3
3245.8
2879.9
2530.9
2180.2
1873.6
1597.5
1334.9
1121.4
948.7
786.0
620.0
438.8
310.0
201.6
127.1
72.8
33.9
0.0

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