

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: P636660

Luminaire Tested: **IFLD-S-SA6A-940-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636660  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-940-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15528.4 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

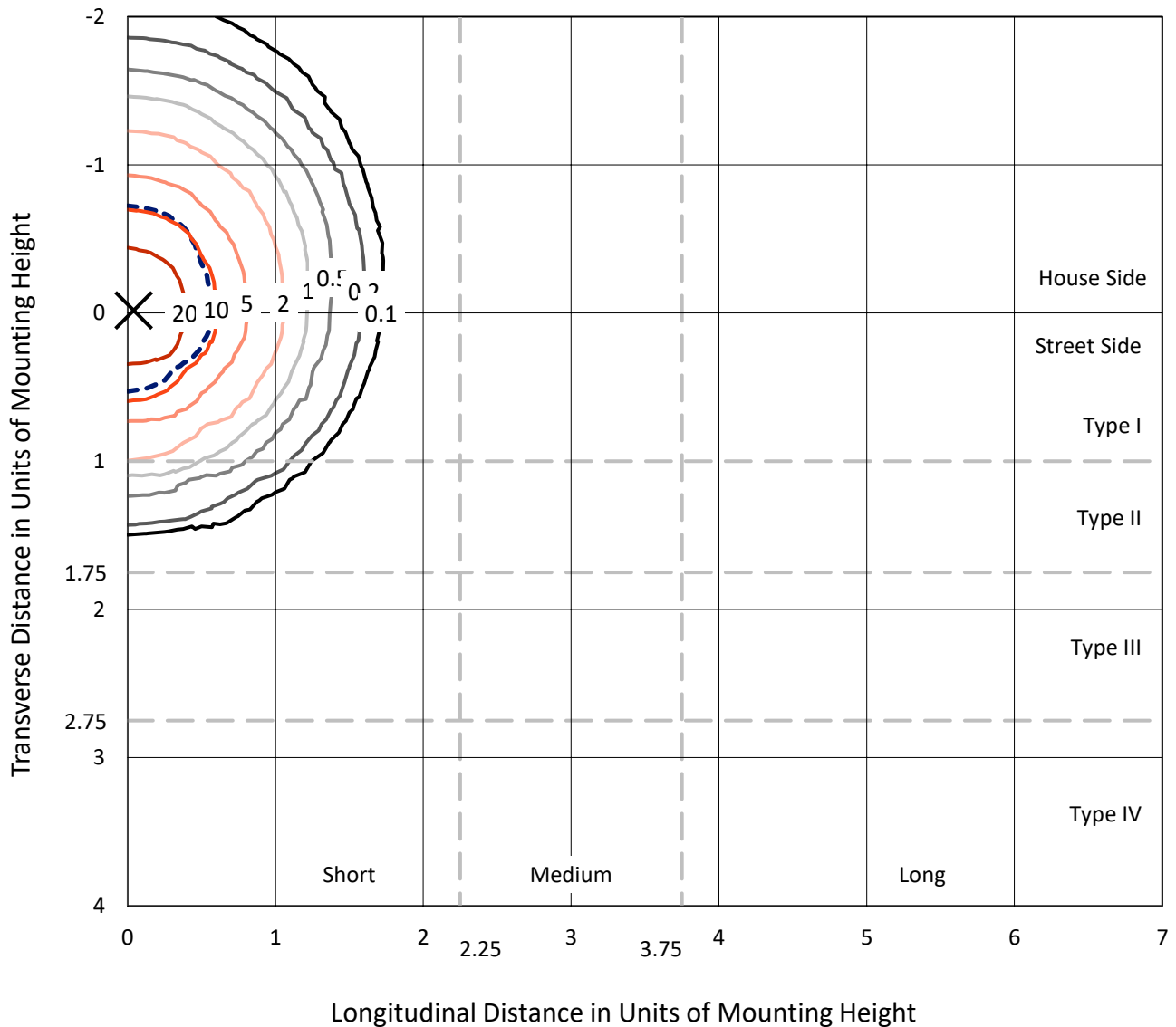
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

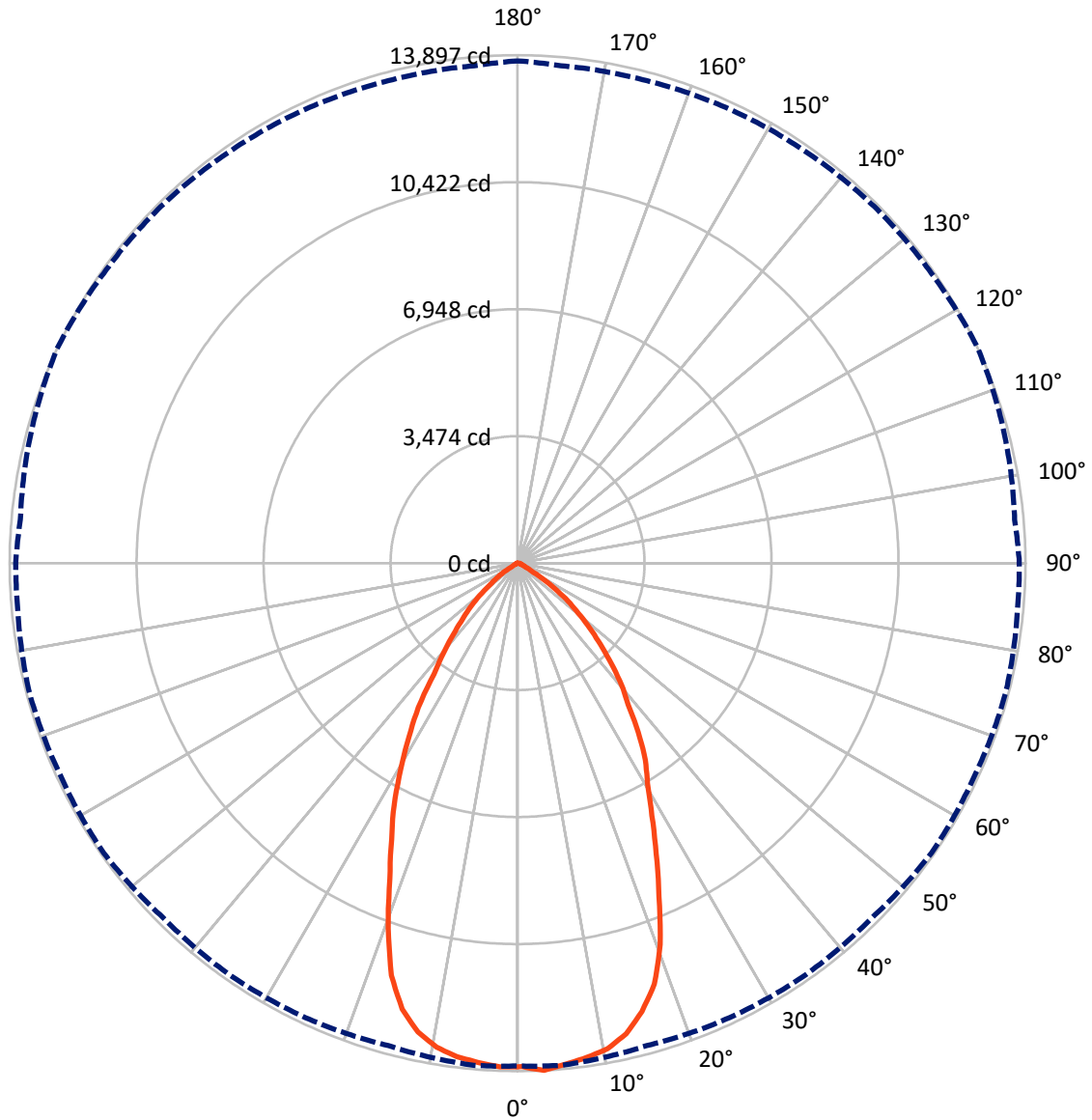
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8886.7	0.0	8886.7
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	6641.7	0.0	6641.7
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	15528.4	0.0	15528.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1297.7	8.4
10°-20°	3440.8	22.2
20°-30°	3935.5	25.3
30°-40°	3372.6	21.7
40°-50°	2230.1	14.4
50°-60°	973.1	6.3
60°-70°	191.2	1.2
70°-80°	69.0	0.4
80°-90°	18.3	0.1
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°	15528.4	100.0
0°-180°	15528.4	100.0



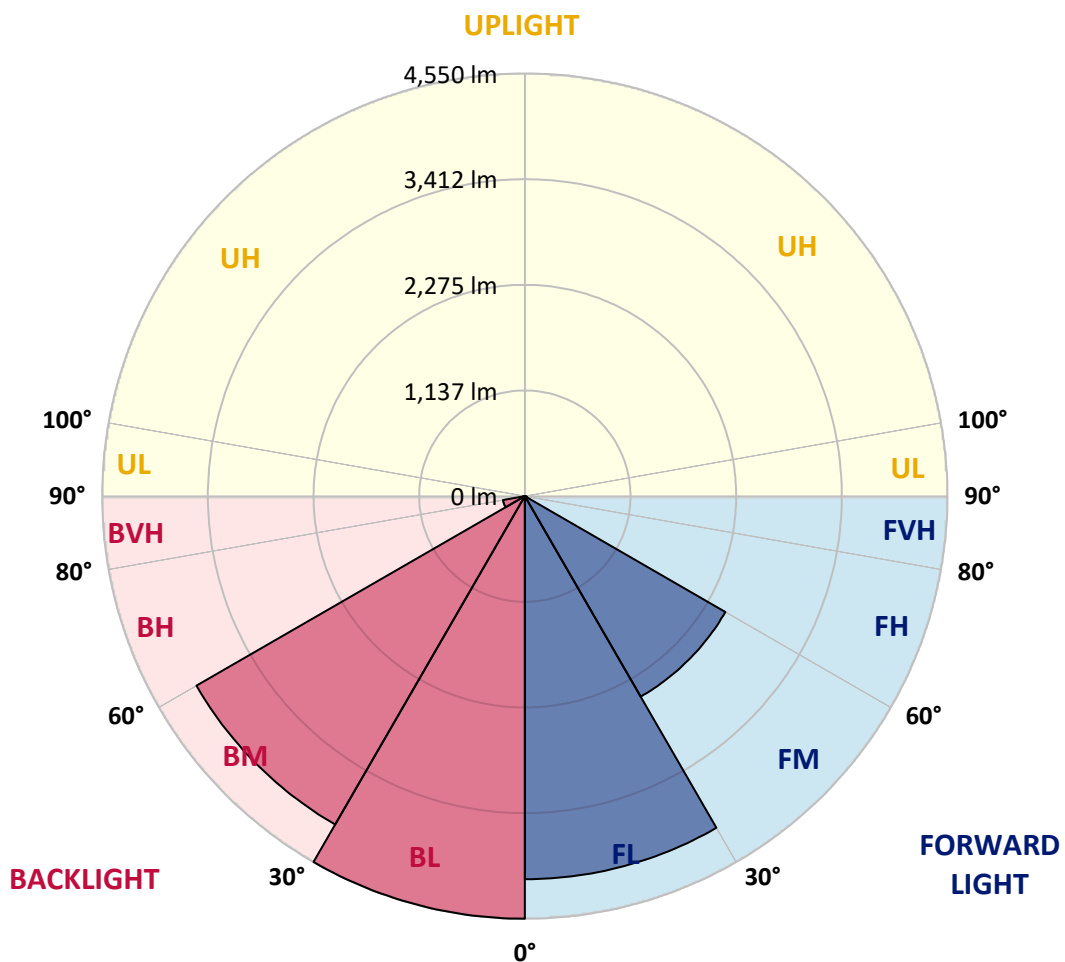
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4124.0	26.6			
FM (30°-60°)	2493.5	16.1			
FH (60°-80°)	21.1	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4550.0	29.3	B4/5000		
BM (30°-60°)	4082.4	26.3	B3/5000		
BH (60°-80°)	239.1	1.5	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			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°	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6
2.5°	13757.8	13790.8	13665.4	13721.5	13744.6	13714.9	13823.8	13790.8	13817.2	13734.7
5°	13757.8	13790.8	13645.6	13672.0	13678.6	13622.5	13741.3	13701.7	13705.0	13619.2
7.5°	13672.0	13711.6	13579.6	13599.4	13602.7	13556.5	13658.8	13602.7	13582.9	13493.8
10°	13440.9	13464.1	13345.2	13394.7	13440.9	13398.0	13487.2	13424.4	13424.4	13345.2
12.5°	13074.6	13117.5	12985.4	13044.8	13084.5	13034.9	13137.3	13114.2	13117.5	13038.2
15°	12407.8	12259.3	12417.7	12536.5	12539.8	12529.9	12625.6	12602.5	12619.0	12500.2
17.5°	9166.4	9130.1	9314.9	10717.8	11760.8	11902.8	11919.3	11793.8	11737.7	11622.2
20°	8493.0	8519.4	8479.8	8486.4	9308.3	11014.8	10912.5	10602.2	10460.3	10344.8
22.5°	8001.2	7958.3	7931.9	7915.4	7938.5	9050.9	9786.9	9318.2	9242.3	9186.2
25°	7466.5	7446.7	7413.6	7407.0	7393.8	7205.7	8265.3	8308.2	8186.0	8116.7
27.5°	6968.0	6954.8	6918.5	6915.2	6763.4	6307.9	6423.4	7443.4	7410.3	7383.9
30°	6436.6	6410.2	6390.4	6390.4	5931.6	5462.9	5274.7	6489.4	6489.4	6466.3
32.5°	5859.0	5835.9	5842.5	5763.2	5215.3	4786.2	4489.1	5601.5	5948.1	5928.3
35°	3581.4	3574.8	4244.9	5126.2	4482.5	4093.0	4073.2	4792.8	5297.8	5350.6
37.5°	3188.6	3168.8	3178.7	3234.8	3838.9	3683.7	3677.1	3799.2	4508.9	4535.3
40°	2861.8	2848.6	2838.7	2637.4	2445.9	3287.6	3264.5	3185.3	3852.1	3898.3
42.5°	2551.5	2538.3	2538.3	2254.5	1944.2	2703.4	2713.3	2620.9	3248.0	3264.5
45°	2231.4	2221.5	2165.3	1798.9	1709.8	1795.6	2247.9	2142.2	2577.9	2749.6
47.5°	1053.0	1046.4	1515.1	1495.3	1488.7	1435.9	1716.4	1775.8	2046.5	2218.2
50°	845.0	838.4	798.8	703.1	1224.6	1089.3	1237.8	1366.5	1452.4	1610.8
52.5°	699.8	693.2	610.7	541.3	680.0	795.5	739.4	914.3	911.0	1082.7
55°	458.8	425.8	468.7	442.3	356.5	577.6	564.4	693.2	676.7	825.2
57.5°	9.9	9.9	23.1	250.9	224.5	244.3	323.5	396.1	445.6	488.5
60°	3.3	3.3	6.6	13.2	92.4	102.3	125.4	145.2	204.7	254.2
62.5°	0.0	0.0	3.3	6.6	13.2	52.8	59.4	69.3	95.7	132.0
65°	0.0	0.0	0.0	3.3	6.6	13.2	19.8	42.9	59.4	75.9
67.5°	0.0	0.0	0.0	3.3	3.3	6.6	13.2	19.8	26.4	52.8
70°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	13.2	19.8	26.4
72.5°	0.0	0.0	0.0	3.3	3.3	9.9	6.6	9.9	13.2	16.5
75°	0.0	0.0	0.0	3.3	3.3	3.3	6.6	9.9	9.9	13.2
77.5°	0.0	0.0	0.0	3.3	6.6	6.6	6.6	6.6	6.6	9.9
80°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	13.2	6.6	6.6
82.5°	0.0	0.0	0.0	6.6	3.3	13.2	19.8	16.5	6.6	3.3
85°	0.0	0.0	0.0	3.3	13.2	16.5	16.5	9.9	3.3	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	9.9	3.3	3.3
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°
13777.6	0°	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6	13777.6
13728.1	2.5°	13652.2	13780.9	13896.5	13823.8	13797.4	13744.6	13705.0	13662.1	13658.8
13609.3	5°	13533.4	13655.5	13767.7	13681.9	13688.5	13662.1	13635.7	13625.8	13632.4
13487.2	7.5°	13431.0	13533.4	13655.5	13582.9	13602.7	13586.2	13573.0	13553.2	13582.9
13328.7	10°	13275.9	13368.3	13510.3	13440.9	13431.0	13414.5	13401.3	13365.0	13381.5
13041.5	12.5°	12935.9	13051.5	13213.2	13134.0	13160.4	13114.2	13094.4	13071.3	13074.6
12543.1	15°	12473.8	12562.9	12728.0	12665.3	12685.1	12655.4	12655.4	12655.4	12678.5
11638.7	17.5°	11668.4	11850.0	12110.7	12031.5	12061.2	12067.8	12061.2	12084.3	12114.0
10351.4	20°	10358.0	10668.3	11143.6	11298.7	11361.4	11364.7	11318.5	11374.6	11434.0
9146.6	22.5°	9153.2	9480.0	9899.2	10325.0	10589.0	10575.8	10582.4	10618.7	10681.5
8073.8	25°	8110.1	8423.7	8803.3	9182.9	9760.5	9879.4	9882.7	9915.7	9965.2
7341.0	27.5°	7357.5	7479.7	7826.2	8209.1	8829.7	9209.3	9189.5	9219.2	9272.0
6423.4	30°	6449.8	6918.5	6997.7	7232.1	7766.8	8463.3	8466.6	8499.6	8552.4
5882.1	32.5°	5865.6	6175.8	6420.1	6426.7	6882.2	7598.5	7740.4	7773.4	7809.7
5320.9	35°	5317.6	5353.9	5684.0	5776.4	6040.5	6750.2	7001.0	7020.8	7080.3
4525.4	37.5°	4601.3	4815.9	4908.3	5238.4	5251.6	5826.0	6324.4	6304.6	6350.8
3895.0	40°	3944.5	4149.1	4383.5	4624.5	4657.5	5086.6	5637.8	5657.6	5677.4
3231.5	42.5°	3257.9	3518.7	3759.6	3921.4	4145.8	4393.4	4918.2	5010.6	5056.9
2769.4	45°	2818.9	2891.5	3178.7	3416.4	3644.1	3759.6	4251.5	4419.8	4449.5
2191.7	47.5°	2221.5	2465.7	2660.5	2861.8	3145.7	3248.0	3604.5	3838.9	3862.0
1627.3	50°	1716.4	1891.4	2158.7	2340.3	2670.4	2726.5	2970.7	3274.4	3304.1
1089.3	52.5°	1227.9	1465.6	1726.3	1901.3	2218.2	2290.8	2472.3	2762.8	2782.6
835.1	55°	881.3	1036.5	1251.0	1501.9	1732.9	1894.7	2020.1	2297.4	2323.8
547.9	57.5°	600.7	746.0	835.1	1086.0	1224.6	1399.5	1501.9	1713.1	1732.9
260.8	60°	287.2	356.5	425.8	551.2	640.4	788.9	854.9	940.7	963.8
158.4	62.5°	184.8	217.9	277.3	330.1	415.9	508.3	534.7	607.4	633.8
99.0	65°	122.1	155.1	217.9	231.1	316.9	389.5	422.5	475.3	505.0
59.4	67.5°	69.3	108.9	161.7	191.4	250.9	320.2	356.5	402.7	429.1
39.6	70°	46.2	89.1	128.7	158.4	198.0	257.5	303.7	343.3	359.8
19.8	72.5°	26.4	56.1	89.1	125.4	158.4	214.6	257.5	290.5	191.4
13.2	75°	16.5	42.9	75.9	105.6	132.0	171.6	208.0	204.7	85.8
9.9	77.5°	13.2	33.0	66.0	89.1	108.9	118.8	148.5	168.3	66.0
6.6	80°	9.9	26.4	59.4	75.9	42.9	85.8	115.5	125.4	46.2
6.6	82.5°	6.6	16.5	49.5	52.8	29.7	62.7	92.4	82.5	33.0
3.3	85°	3.3	9.9	16.5	29.7	26.4	29.7	23.1	33.0	23.1
3.3	87.5°	3.3	6.6	13.2	13.2	13.2	9.9	13.2	13.2	13.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13777.6  
*13738.0*  
13714.9  
13665.4  
13460.8  
13170.3  
12688.4  
12213.0  
11473.7  
10691.4  
10051.0  
9321.5  
8644.9  
7892.3  
7143.0  
6406.9  
5740.1  
5122.9  
4522.1  
3918.1  
3347.0  
2818.9  
2346.9  
1772.5  
990.2  
640.4  
505.0  
425.8  
356.5  
155.1  
85.8  
66.0  
49.5  
33.0  
23.1  
13.2  
0.0

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