

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: P638146

Luminaire Tested: **IFLD-M-SA4C-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638146  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21569.6 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

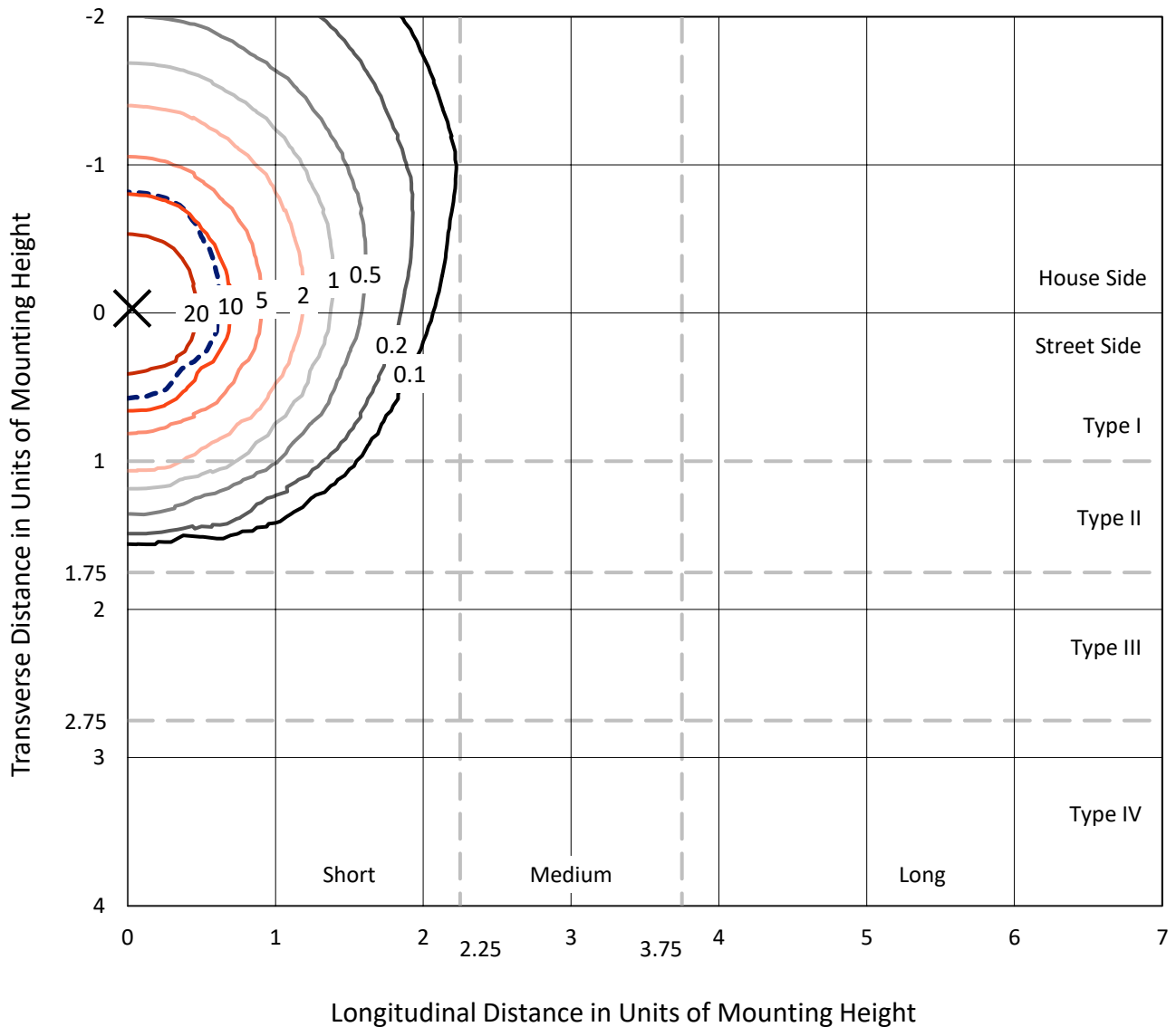
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

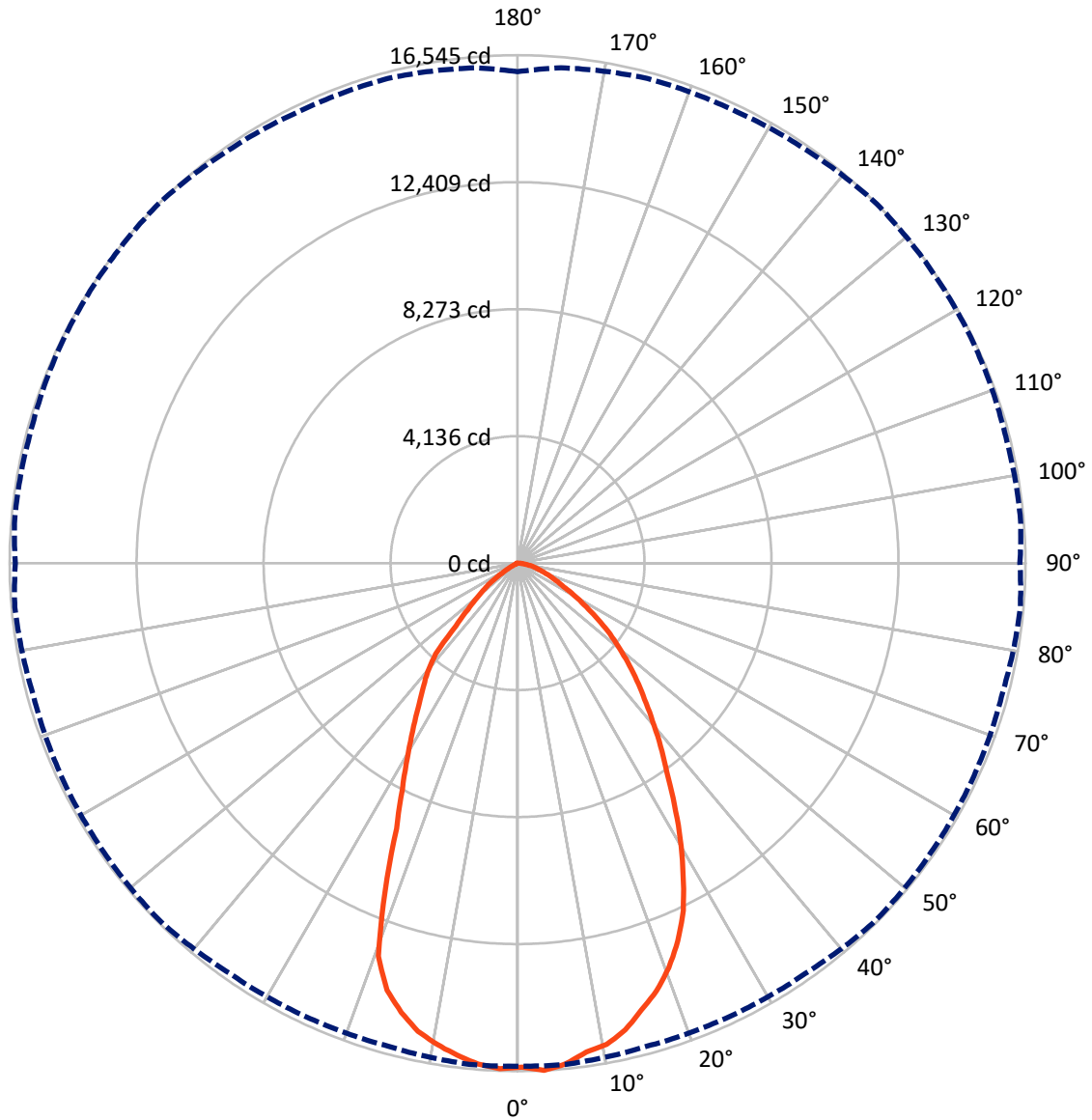
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41 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	12774.6	0.0	12774.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8795.0	0.0	8795.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21569.6	0.0	21569.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1539.4	7.1
10°-20°	4128.0	19.1
20°-30°	5034.4	23.3
30°-40°	4596.3	21.3
40°-50°	3321.7	15.4
50°-60°	1813.7	8.4
60°-70°	749.9	3.5
70°-80°	303.7	1.4
80°-90°	82.6	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°	21569.6	100.0
0°-180°	21569.6	100.0



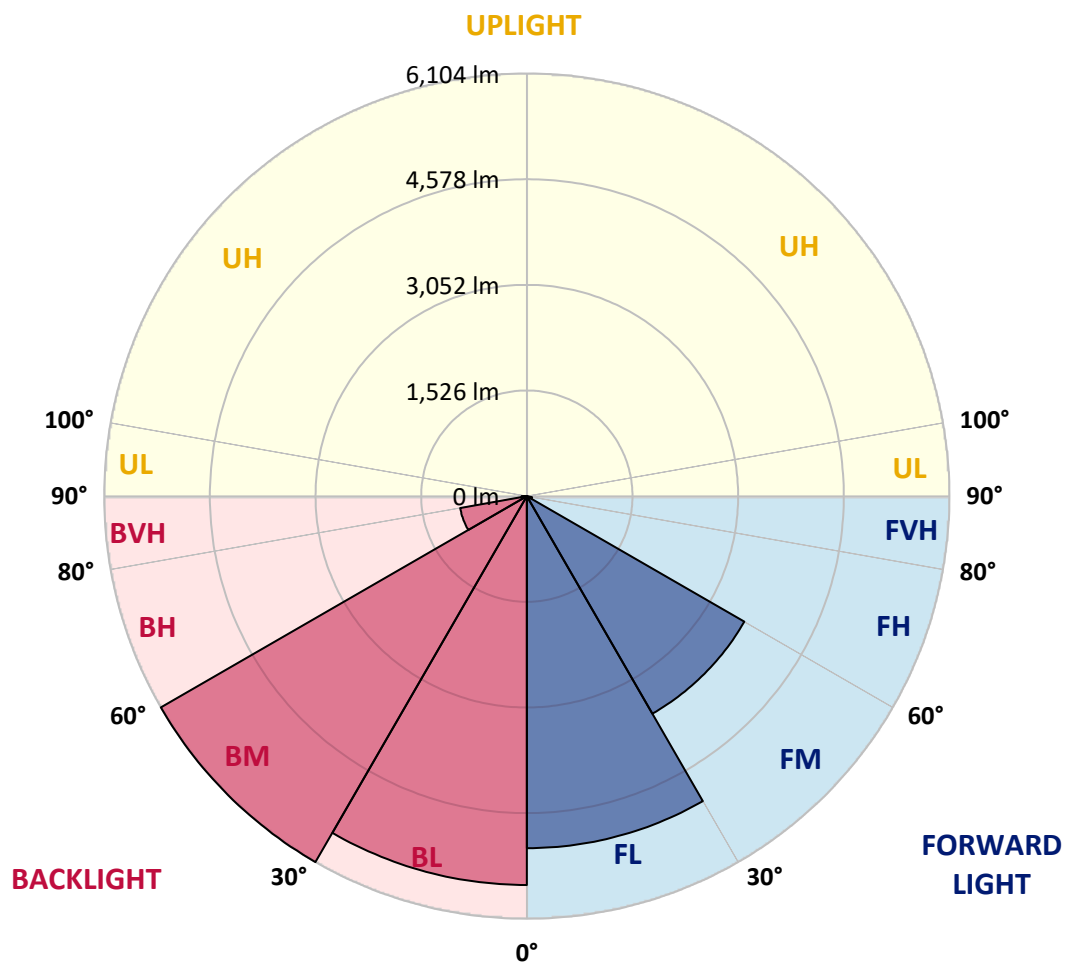
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5084.8	23.6			
FM (30°-60°)	3627.6	16.8			
FH (60°-80°)	76.0	0.4			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	5617.0	26.0	B5		
BM (30°-60°)	6104.0	28.3	B4/8500		
BH (60°-80°)	977.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	76.0	0.4			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°	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4
2.5°	16384.0	16405.3	16289.9	16302.0	16323.3	16478.2	16438.7	16402.2	16350.6	16438.7
5°	16362.8	16374.9	16253.4	16210.9	16229.1	16368.8	16241.3	16241.3	16229.1	16213.9
7.5°	16198.7	16204.8	16110.6	16034.7	16083.3	16147.1	16052.9	16098.5	16031.7	16083.3
10°	15952.7	15913.2	15800.8	15779.6	15834.2	15895.0	15831.2	15873.7	15813.0	15852.5
12.5°	15591.2	15530.5	15439.4	15412.0	15506.2	15588.2	15536.6	15512.3	15433.3	15530.5
15°	14197.1	14151.5	14358.0	14719.5	15044.5	15114.4	15059.7	15084.0	14920.0	14947.3
17.5°	11685.1	11600.0	11821.8	12678.3	13899.4	14543.3	14494.7	14336.8	14093.8	14148.5
20°	10618.9	10594.6	10570.3	10773.8	11627.4	13580.5	13647.3	13246.3	12900.1	12824.1
22.5°	10017.5	10008.4	9984.1	10029.7	10254.4	11508.9	12274.3	11903.8	11672.9	11651.7
25°	9467.7	9452.6	9379.7	9437.4	9437.4	9510.3	10491.4	10716.1	10512.6	10488.3
27.5°	8908.8	8881.5	8869.4	8896.7	8757.0	8264.9	8514.0	9610.5	9504.2	9510.3
30°	8304.4	8295.3	8261.9	8319.6	7888.3	7277.7	7119.8	8608.1	8629.4	8623.3
32.5°	7405.3	7444.8	7596.7	7660.5	6949.7	6445.5	6181.2	7447.8	7882.2	7873.1
35°	5379.3	5379.3	5874.4	6794.8	6090.1	5710.4	5567.7	6314.9	7144.1	7174.5
37.5°	4422.5	4437.7	4534.9	4954.1	5254.8	5121.1	5078.6	5315.5	6196.4	6245.0
40°	3979.1	3979.1	3979.1	3805.9	3796.8	4613.9	4589.6	4513.7	5352.0	5458.3
42.5°	3575.1	3584.2	3590.3	3152.9	2909.9	3988.2	3933.5	3818.1	4595.7	4720.2
45°	3159.0	3174.1	3192.4	2636.5	2530.2	2870.4	3329.0	3201.5	3848.5	4009.4
47.5°	1928.8	1953.1	2366.2	2235.6	2247.7	2214.3	2715.5	2694.2	3155.9	3383.7
50°	1303.1	1312.2	1351.7	1418.5	1928.8	1740.5	1922.7	2229.5	2396.6	2742.8
52.5°	1093.5	1108.7	1011.5	920.3	1266.6	1360.8	1342.6	1655.4	1722.2	2150.5
55°	768.5	817.1	771.5	762.4	719.9	1057.0	1017.5	1272.7	1315.2	1634.1
57.5°	79.0	91.1	157.9	568.0	470.8	598.4	726.0	932.5	975.0	1205.9
60°	6.1	6.1	15.2	79.0	343.2	358.4	501.2	574.1	656.1	841.4
62.5°	0.0	3.0	6.1	12.1	54.7	191.4	252.1	300.7	394.9	543.7
65°	0.0	0.0	3.0	9.1	12.1	72.9	97.2	157.9	215.7	337.2
67.5°	0.0	0.0	3.0	6.1	9.1	18.2	33.4	57.7	115.4	191.4
70°	0.0	0.0	3.0	6.1	9.1	15.2	24.3	36.4	51.6	103.3
72.5°	0.0	0.0	3.0	3.0	6.1	15.2	18.2	24.3	36.4	51.6
75°	0.0	0.0	3.0	3.0	9.1	18.2	15.2	18.2	24.3	33.4
77.5°	0.0	0.0	3.0	6.1	9.1	18.2	15.2	18.2	18.2	21.3
80°	0.0	0.0	3.0	6.1	12.1	21.3	18.2	18.2	15.2	15.2
82.5°	0.0	0.0	3.0	9.1	12.1	27.3	27.3	24.3	12.1	9.1
85°	0.0	0.0	6.1	12.1	18.2	30.4	30.4	24.3	9.1	6.1
87.5°	0.0	0.0	6.1	9.1	15.2	21.3	30.4	24.3	9.1	3.0
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°
16414.4	0°	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4	16414.4
16362.8	2.5°	16444.8	16426.5	16487.3	16511.6	16545.0	16417.4	16338.5	16341.5	16195.7
16177.5	5°	16274.7	16277.7	16356.7	16350.6	16384.0	16314.2	16283.8	16232.1	16104.6
15943.6	7.5°	16059.0	16031.7	16107.6	16165.3	16080.3	16128.9	16059.0	16083.3	16007.4
15737.0	10°	15892.0	15828.2	15898.0	15937.5	15940.6	15892.0	15825.1	15761.3	15734.0
15415.1	12.5°	15521.4	15439.4	15557.8	15612.5	15603.4	15509.2	15433.3	15448.5	15360.4
14850.1	15°	15011.1	15014.1	15099.2	15150.8	15102.2	15081.0	15087.0	15050.6	14974.6
14069.5	17.5°	14230.5	14276.0	14500.8	14625.3	14652.7	14610.1	14588.9	14546.4	14470.4
12824.1	20°	12930.4	13203.8	13604.8	13990.5	14066.4	14054.3	13978.4	13960.1	13917.6
11590.9	22.5°	11788.4	11991.9	12456.6	13058.0	13367.8	13398.2	13307.1	13279.7	13234.2
10488.3	25°	10606.8	10825.5	11244.7	11897.7	12538.6	12669.2	12654.0	12572.0	12523.4
9510.3	27.5°	9610.5	9829.2	10208.9	10798.1	11484.6	11903.8	11943.3	11812.7	11809.6
8638.5	30°	8711.4	9012.1	9300.7	9780.6	10445.8	11074.6	11141.4	11050.3	11059.4
7839.7	32.5°	8006.7	8255.8	8501.8	8823.8	9376.6	10108.6	10369.9	10284.8	10251.4
7174.5	35°	7286.8	7456.9	7709.1	8003.7	8380.3	9106.3	9558.9	9495.1	9461.7
6275.4	37.5°	6466.7	6758.3	6940.6	7271.7	7566.3	8143.4	8781.3	8772.2	8702.3
5509.9	40°	5625.4	5932.1	6208.6	6542.7	6770.5	7229.1	7936.9	7933.8	7942.9
4717.2	42.5°	4863.0	5145.4	5479.6	5844.1	6062.8	6396.9	7156.2	7198.8	7250.4
4064.1	45°	4173.5	4428.6	4738.4	5181.9	5446.2	5637.5	6311.8	6506.2	6503.2
3480.9	47.5°	3553.8	3793.8	4055.0	4486.3	4823.5	4996.6	5555.5	5831.9	5813.7
2855.2	50°	2982.8	3195.4	3468.8	3781.6	4234.2	4386.1	4802.2	5166.7	5139.4
2275.1	52.5°	2399.6	2694.2	2925.1	3210.6	3687.5	3836.3	4158.3	4513.7	4492.4
1707.0	55°	1871.1	2156.6	2436.0	2682.1	3083.0	3304.7	3535.6	3900.1	3894.0
1336.5	57.5°	1415.5	1728.3	1992.6	2226.5	2545.4	2818.8	3004.0	3335.1	3377.6
914.3	60°	1047.9	1287.9	1573.4	1834.6	2086.7	2369.2	2493.7	2818.8	2837.0
625.7	62.5°	713.8	978.1	1257.5	1494.4	1682.7	1974.3	2086.7	2354.0	2387.4
400.9	65°	495.1	665.2	984.1	1154.2	1385.1	1634.1	1746.5	1959.2	2026.0
230.8	67.5°	328.0	473.8	768.5	923.4	1151.2	1321.3	1464.1	1637.2	1710.1
145.8	70°	179.2	349.3	549.8	729.0	926.4	1090.4	1230.2	1369.9	1433.7
66.8	72.5°	121.5	233.9	382.7	577.1	747.2	908.2	1032.7	1136.0	1139.0
39.5	75°	60.7	157.9	291.6	446.5	583.2	741.1	853.5	914.3	841.4
24.3	77.5°	36.4	115.4	236.9	358.4	473.8	598.4	662.2	695.6	577.1
18.2	80°	21.3	82.0	185.3	285.5	328.0	440.4	501.2	510.3	385.8
12.1	82.5°	15.2	60.7	145.8	209.6	200.5	309.8	376.6	364.5	246.0
9.1	85°	9.1	42.5	91.1	130.6	121.5	203.5	218.7	224.8	142.8
6.1	87.5°	6.1	24.3	48.6	69.9	57.7	88.1	88.1	106.3	69.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16414.4  
*16007.4*  
16074.2  
15879.8  
15612.5  
15284.5  
14898.7  
14437.0  
13820.4  
13222.0  
12471.8  
11803.5  
11013.8  
10254.4  
9416.1  
8760.0  
7942.9  
7223.1  
6509.3  
5819.8  
5163.7  
4538.0  
3909.2  
3359.4  
2864.3  
2393.5  
2010.8  
1701.0  
1409.4  
1111.7  
786.7  
555.9  
361.5  
227.8  
130.6  
60.7  
0.0

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