

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: P477398

Luminaire Tested: **IFLD-M-SA4C-740-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477398  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

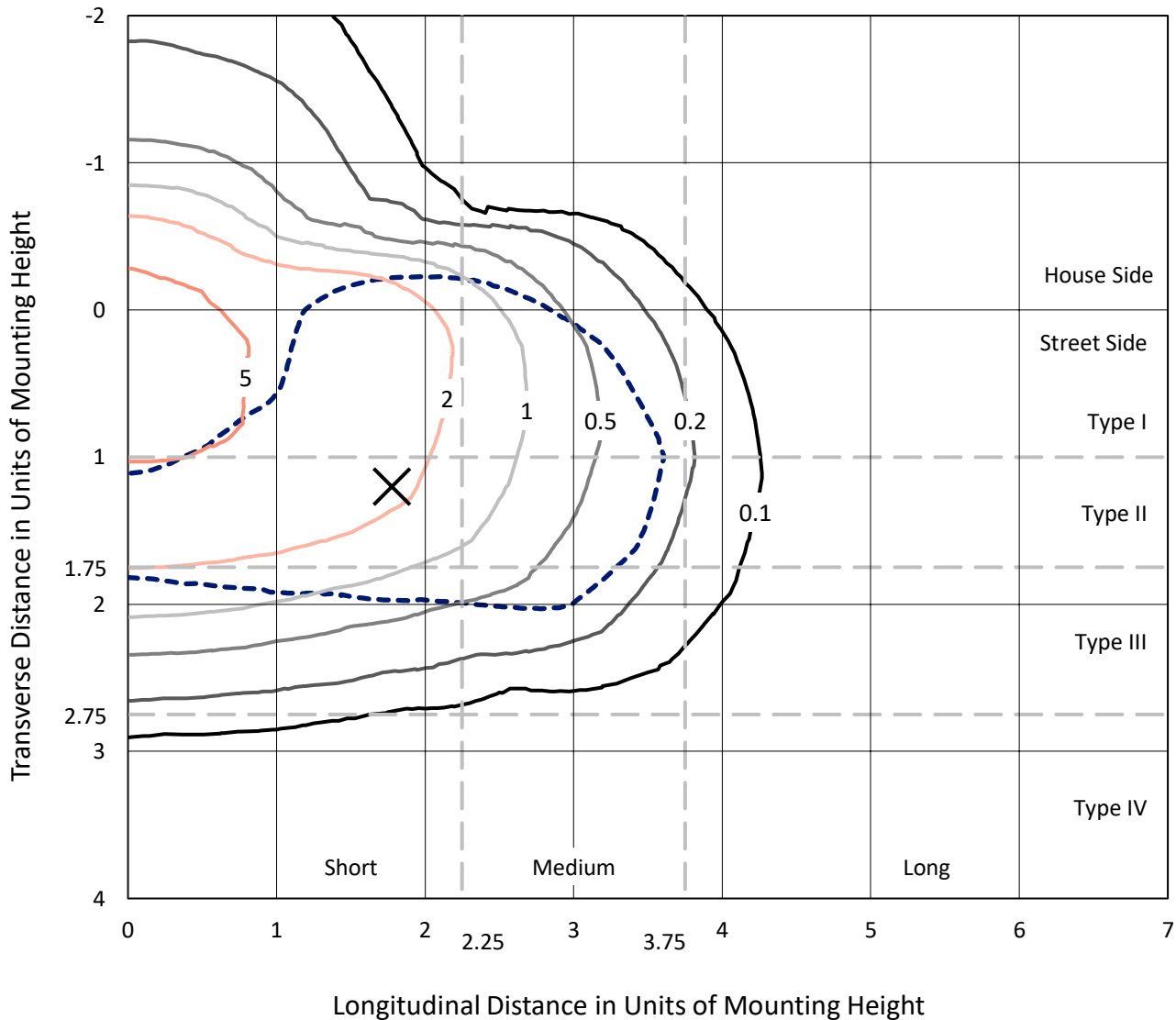
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28958.2 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

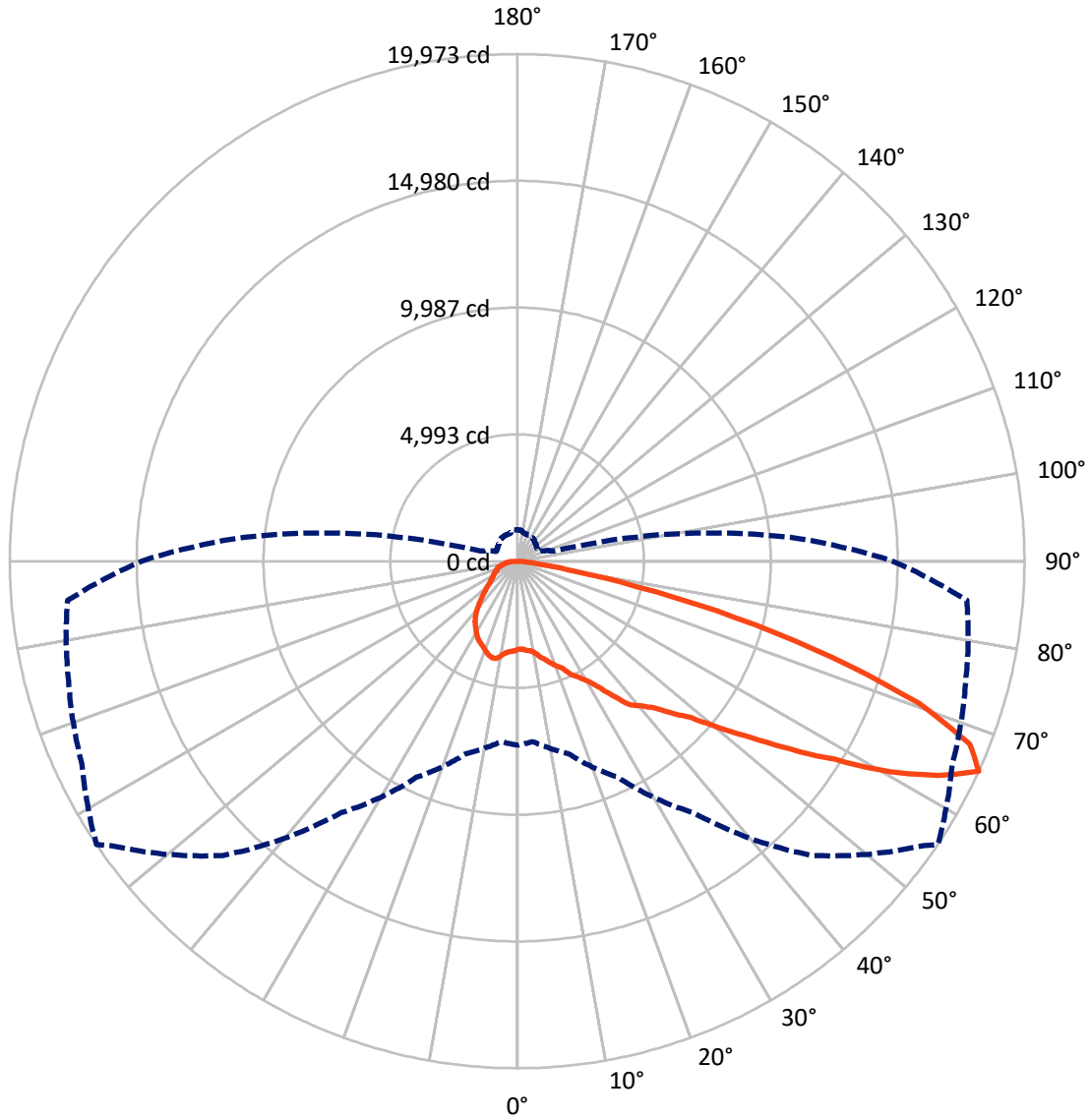
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6494.4	0.0	6494.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	22463.8	0.0	22463.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	28958.2	0.0	28958.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.4	1.2
10°-20°	1118.5	3.9
20°-30°	1991.5	6.9
30°-40°	2982.2	10.3
40°-50°	4418.4	15.3
50°-60°	6808.2	23.5
60°-70°	7707.7	26.6
70°-80°	3198.8	11.0
80°-90°	388.6	1.3
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°	28958.2	100.0
0°-180°	28958.2	100.0

**Coefficient of Utilization**

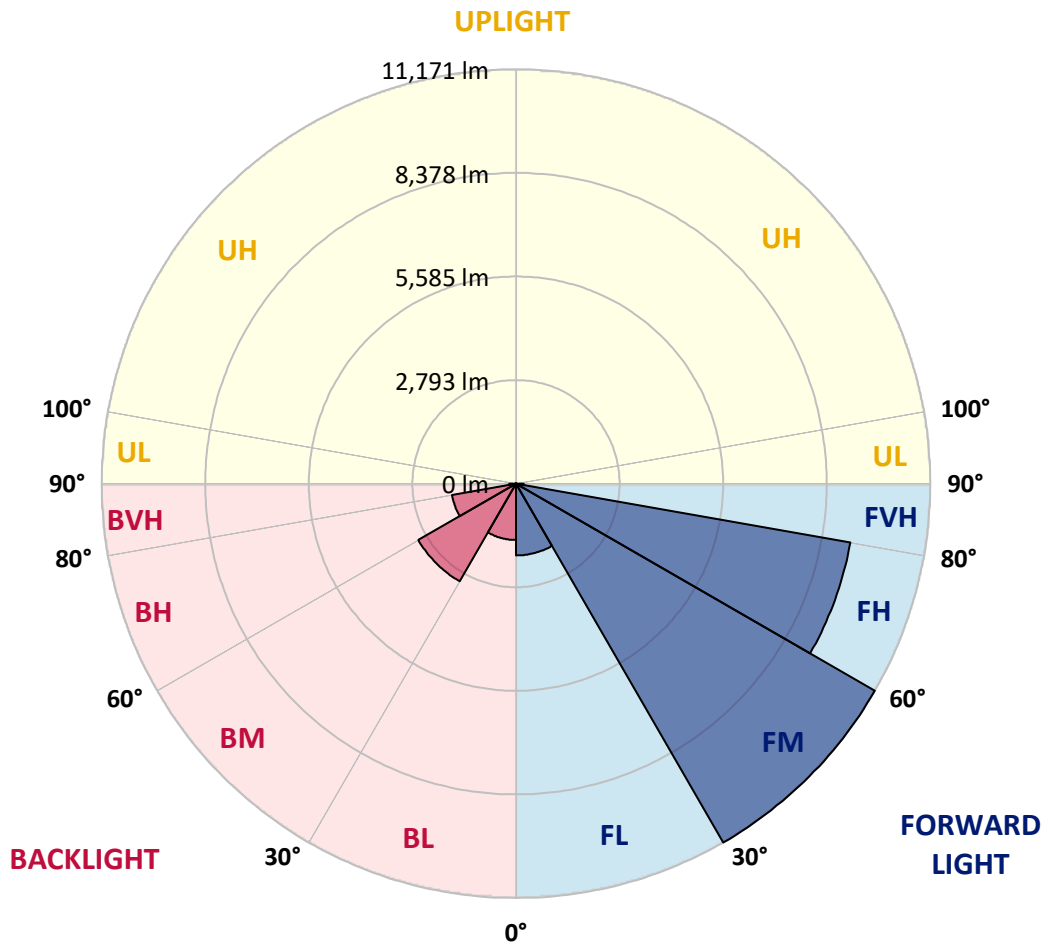


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.3	6.7			
FM (30°-60°)	11170.8	38.6			
FH (60°-80°)	9152.8	31.6			G4/12000
FVH (80°-90°)	205.0	0.7			G2/225
BL (0°-30°)	1519.1	5.2	B3/2500		
BM (30°-60°)	3038.0	10.5	B3/5000		
BH (60°-80°)	1753.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	183.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8
2.5°	3384.9	3403.1	3391.0	3427.3	3457.6	3457.6	3481.9	3463.7	3487.9	3521.3
5°	3497.0	3424.3	3463.7	3481.9	3472.8	3487.9	3463.7	3524.3	3484.9	3548.5
7.5°	3524.3	3551.6	3584.9	3554.6	3581.9	3566.7	3569.8	3560.7	3539.5	3591.0
10°	3724.3	3684.9	3760.7	3715.2	3709.2	3703.1	3691.0	3645.5	3697.0	3700.1
12.5°	3954.6	3918.2	3915.2	3878.9	3927.3	3839.5	3857.6	3833.4	3842.5	3854.6
15°	4121.3	4106.1	4175.8	4133.4	4069.8	4030.4	4072.8	4006.1	4039.5	4033.4
17.5°	4451.6	4448.6	4397.0	4327.3	4291.0	4233.4	4224.3	4197.0	4221.3	4209.2
20°	4681.9	4715.2	4724.3	4642.5	4503.1	4439.5	4424.3	4403.1	4430.4	4421.3
22.5°	5033.4	4981.9	5021.3	4878.9	4827.4	4675.8	4621.3	4591.0	4721.3	4688.0
25°	5257.7	5312.2	5272.8	5224.3	5109.2	4921.3	4881.9	4948.6	5000.1	4963.7
27.5°	5763.7	5709.2	5672.8	5527.4	5451.6	5254.6	5209.2	5184.9	5197.1	5218.3
30°	6148.6	6178.9	6097.1	5994.0	5803.1	5603.1	5497.1	5475.8	5433.4	5397.1
32.5°	6697.1	6651.6	6603.1	6536.5	6372.8	6109.2	6006.2	5927.4	5800.1	5630.4
35°	6960.7	7091.0	7054.7	6875.9	6751.6	6651.6	6621.3	6500.1	6394.0	6127.4
37.5°	7400.1	7454.7	7403.2	7345.6	7288.0	7181.9	7145.6	7178.9	6969.8	6530.4
40°	7685.0	7800.1	7906.2	7745.6	7733.5	7754.7	7530.4	7491.0	7060.7	6830.4
42.5°	8266.8	8315.3	8336.5	8330.4	8400.1	8400.1	7972.9	7888.0	7581.9	7394.1
45°	9036.5	9075.9	9151.7	9206.2	9127.4	9166.8	8557.7	8524.4	8251.7	8215.3
47.5°	9703.2	9797.1	9966.8	10127.4	10230.5	10097.1	9430.5	9194.1	9124.4	9342.6
50°	10285.0	10172.9	10569.9	10733.5	11185.0	11406.3	10394.1	10300.2	10188.1	10606.2
52.5°	10342.6	10494.1	11054.7	11382.0	12312.3	12721.4	11576.0	11536.6	11400.2	11882.0
55°	10754.7	10736.5	11300.2	12009.3	13115.4	13803.3	13115.4	13091.1	12794.2	13251.7
57.5°	10685.0	10869.9	11315.3	12306.3	13839.6	14963.9	14900.3	14733.6	14318.4	14691.2
60°	10448.7	10497.1	11039.6	12297.2	14260.8	16154.8	16827.6	16860.9	16012.4	16309.4
62.5°	9109.2	9221.4	9909.3	11330.5	13960.8	16976.0	18709.4	18591.2	17912.4	17573.0
65°	7245.6	7133.5	7848.6	9385.0	12094.1	16394.2	19533.7	19973.1	18906.4	18285.2
67.5°	4442.5	4415.2	5103.1	6457.7	9048.6	13951.8	18876.1	19218.5	18630.6	18133.6
70°	2287.9	2218.2	2648.5	3603.1	5688.0	10236.5	16427.5	16763.9	17324.5	16263.9
72.5°	1066.7	1051.5	1281.8	1772.8	2897.0	6018.3	12721.4	12963.9	14145.7	13712.4
75°	627.3	636.4	766.7	927.3	1412.1	2836.4	8442.6	8912.3	10194.1	9882.0
77.5°	469.7	469.7	545.5	645.5	824.3	1097.0	4166.7	4788.0	5960.7	5360.7
80°	345.5	351.5	418.2	484.9	572.7	566.7	1654.6	1939.4	2733.4	2336.4
82.5°	269.7	278.8	324.2	360.6	403.0	342.4	678.8	730.3	1124.3	894.0
85°	187.9	193.9	254.5	245.5	245.5	190.9	281.8	297.0	445.5	424.2
87.5°	45.5	51.5	124.2	136.4	103.0	57.6	87.9	100.0	160.6	184.9
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3475.8	0°	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8	3475.8
3536.4	2.5°	3491.0	3503.1	3554.6	3527.3	3542.5	3478.8	3530.4	3487.9	3524.3	3506.1
3563.7	5°	3587.9	3560.7	3591.0	3569.8	3569.8	3594.0	3630.4	3603.1	3657.6	3633.4
3584.9	7.5°	3627.3	3630.4	3648.5	3651.6	3636.4	3712.2	3715.2	3706.1	3757.6	3745.5
3730.4	10°	3724.3	3727.3	3760.7	3778.9	3763.7	3791.0	3760.7	3736.4	3733.4	3721.3
3845.5	12.5°	3878.9	3909.2	3903.1	3918.2	3921.3	3806.1	3736.4	3618.2	3603.1	3618.2
4015.2	15°	4021.3	4009.2	4015.2	4045.5	3918.2	3733.4	3609.2	3509.2	3515.2	3518.2
4236.4	17.5°	4191.0	4200.1	4209.2	4069.8	3836.4	3618.2	3509.2	3509.2	3478.8	3491.0
4391.0	20°	4384.9	4348.6	4269.8	4072.8	3694.0	3484.9	3451.6	3451.6	3415.2	3391.0
4557.7	22.5°	4536.4	4463.7	4345.5	3978.9	3566.7	3433.4	3351.6	3294.0	3251.6	3203.1
4742.5	25°	4633.4	4594.0	4363.7	3881.9	3472.8	3297.0	3175.8	3087.9	3033.4	2969.7
4888.0	27.5°	4781.9	4706.1	4415.2	3769.8	3369.8	3160.7	2972.8	2836.4	2733.4	2666.7
5109.2	30°	4981.9	4872.8	4378.9	3609.2	3212.2	2924.3	2703.1	2527.3	2409.1	2354.6
5318.3	32.5°	5145.5	5003.1	4348.6	3463.7	3036.4	2684.9	2390.9	2212.2	2145.5	2075.8
5669.8	35°	5457.7	5175.8	4327.3	3381.9	2878.8	2445.5	2136.4	1981.9	1897.0	1794.0
5878.9	37.5°	5697.1	5475.8	4275.8	3212.2	2675.8	2212.2	1942.5	1803.1	1675.8	1566.7
6363.7	40°	6072.8	5894.0	4278.9	2972.8	2436.4	2012.2	1790.9	1645.5	1484.9	1390.9
7081.9	42.5°	6778.9	6306.2	4297.0	2781.9	2166.7	1848.5	1654.6	1481.8	1321.2	1242.4
7900.1	45°	7645.6	6872.8	4184.9	2609.1	1890.9	1694.0	1490.9	1318.2	1215.2	1157.6
9012.3	47.5°	8642.6	7427.4	4033.4	2284.9	1660.6	1530.3	1339.4	1239.4	1163.7	1130.3
10445.6	50°	9757.7	8221.4	3991.0	1987.9	1481.8	1390.9	1266.7	1190.9	1139.4	1100.0
12060.8	52.5°	11194.1	9145.6	3906.1	1681.8	1327.3	1278.8	1239.4	1187.9	1142.4	1109.1
13566.9	55°	12566.9	10169.9	3815.2	1430.3	1218.2	1224.3	1245.5	1200.0	1160.6	1109.1
15254.8	57.5°	14112.4	11215.3	3478.8	1245.5	1136.4	1197.0	1239.4	1187.9	1148.5	1109.1
16982.1	60°	15066.9	11803.2	2821.3	1084.9	1063.7	1145.5	1203.1	1148.5	1106.1	1121.2
17776.1	62.5°	15454.8	11494.1	2127.3	984.9	1012.1	1075.8	1145.5	1124.3	1094.0	1151.5
17767.0	65°	14794.2	10782.0	1521.2	900.0	942.4	1006.1	1094.0	1118.2	1127.3	1239.4
16318.5	67.5°	13163.9	9388.0	1118.2	830.3	869.7	963.7	1130.3	1169.7	1163.7	1303.1
13694.2	70°	10533.5	7342.5	872.7	772.7	842.4	997.0	1181.8	1181.8	1139.4	1303.1
10445.6	72.5°	7663.8	5175.8	751.5	706.1	772.7	915.2	1175.8	1172.7	1118.2	1190.9
6651.6	75°	4639.5	3012.2	663.6	639.4	663.6	784.9	1124.3	1106.1	1030.3	1024.3
3200.1	77.5°	2312.2	1515.2	542.4	566.7	578.8	657.6	987.9	1015.2	912.1	887.9
1263.7	80°	975.8	660.6	451.5	487.9	487.9	554.6	821.2	839.4	757.6	712.1
500.0	82.5°	445.5	378.8	384.9	424.2	397.0	430.3	651.5	672.7	615.2	539.4
212.1	85°	187.9	215.2	293.9	333.3	293.9	278.8	448.5	472.7	400.0	333.3
90.9	87.5°	84.8	118.2	184.9	242.4	148.5	130.3	239.4	248.5	200.0	148.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





<u>180°</u>
3475.8
3472.8
3600.1
3727.3
3721.3
3624.3
3560.7
3494.0
3354.6
3175.8
2981.9
2697.0
2384.9
2072.8
1784.9
1569.7
1400.0
1248.5
1169.7
1124.3
1106.1
1106.1
1106.1
1106.1
1109.1
1136.4
1239.4
1312.1
1275.8
1148.5
1012.1
872.7
697.0
527.3
336.4
139.4
0.0

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