

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: P477867

Luminaire Tested: **IFLD-M-SA4D-760-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477867  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

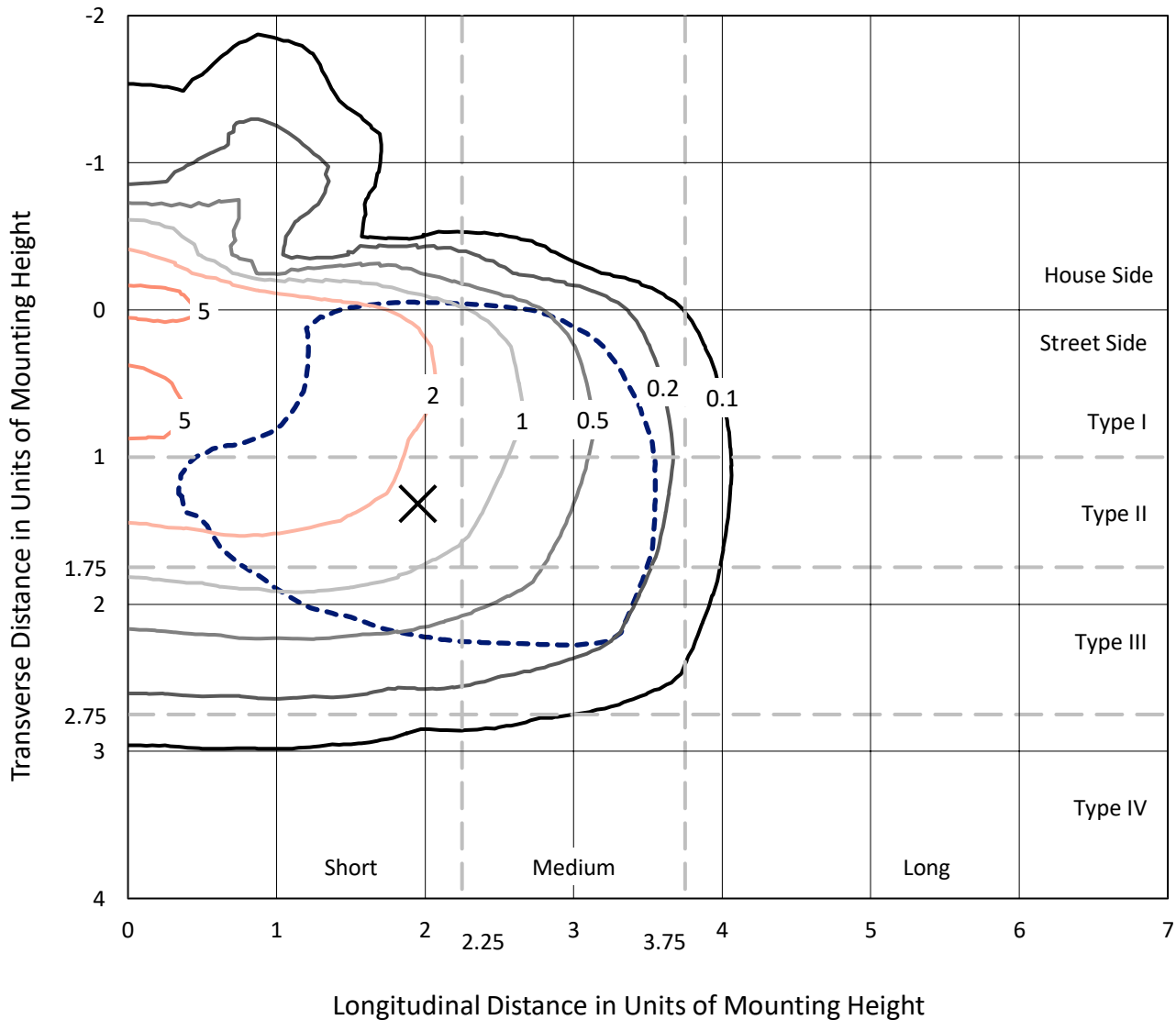
Lumens per Lamp: N/A  
Luminaire Lumens: 31433.8 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

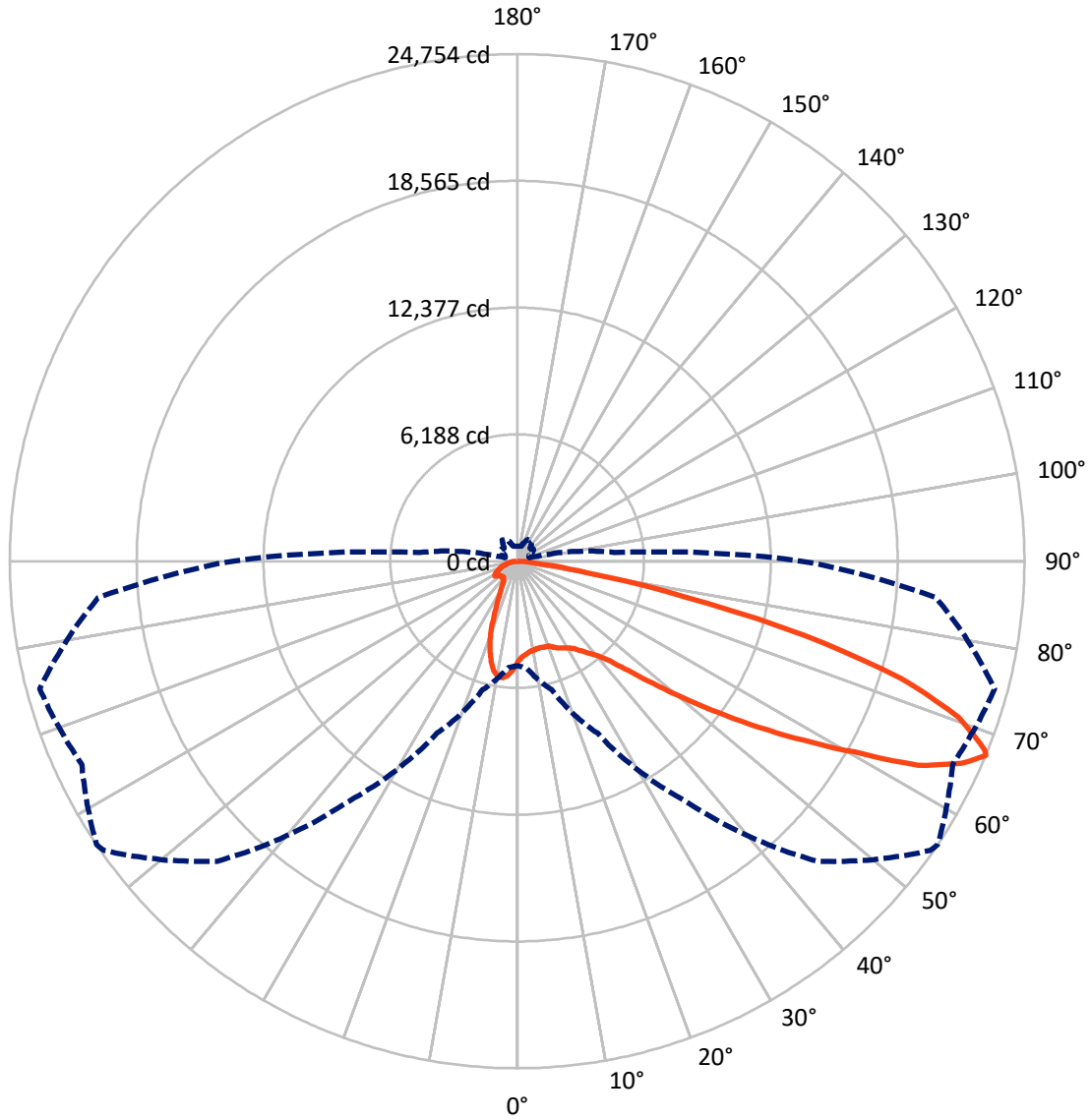
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4976.3	0.0	4976.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	26457.5	0.0	26457.5
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	31433.8	0.0	31433.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.2	1.5
10°-20°	1285.5	4.1
20°-30°	2016.0	6.4
30°-40°	2877.8	9.2
40°-50°	4343.5	13.8
50°-60°	6914.1	22.0
60°-70°	8839.1	28.1
70°-80°	4309.7	13.7
80°-90°	377.0	1.2
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°	31433.8	100.0
0°-180°	31433.8	100.0

**Coefficient of Utilization**

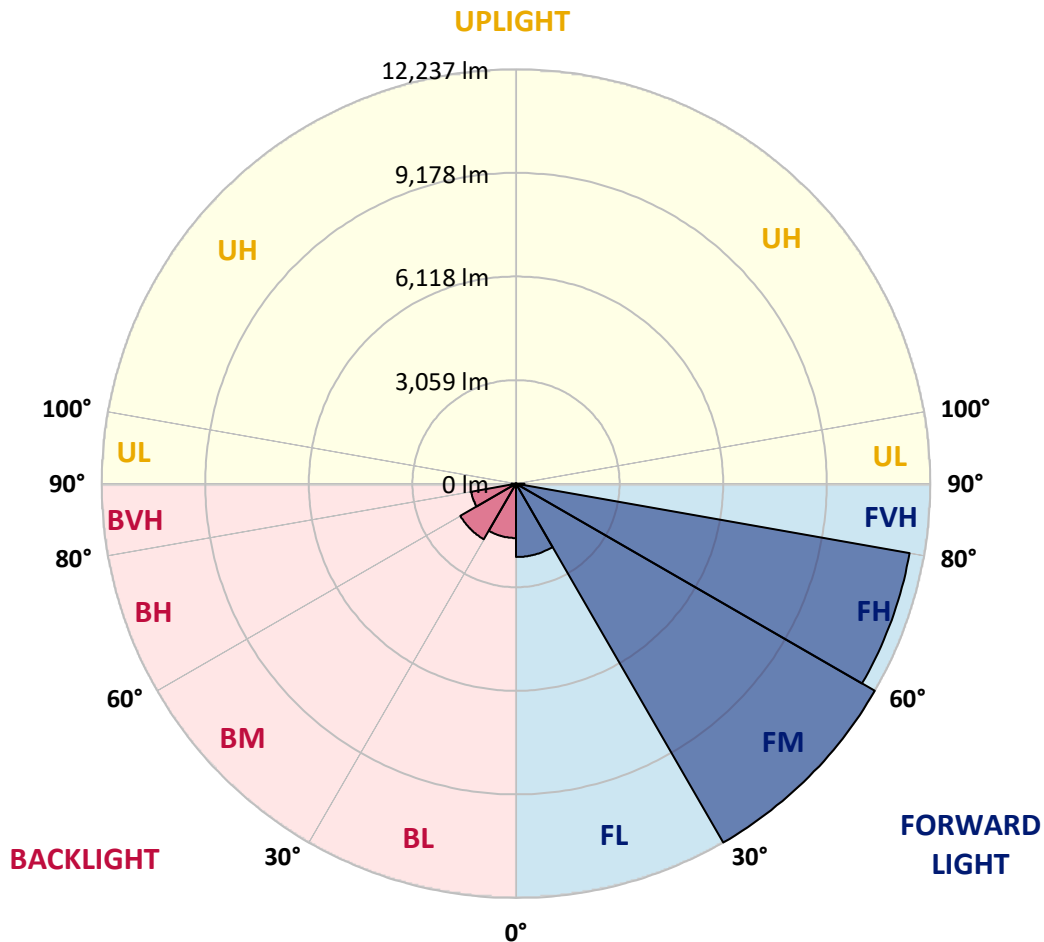


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.1	6.9			
FM (30°-60°)	12236.9	38.9			
FH (60°-80°)	11804.1	37.6			G4/12000
FVH (80°-90°)	250.4	0.8			G3/500
BL (0°-30°)	1606.5	5.1	B3/2500		
BM (30°-60°)	1898.5	6.0	B2/2500		
BH (60°-80°)	1344.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	126.6	0.4			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°	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0
2.5°	4493.0	4474.5	4496.6	4474.5	4574.0	4633.0	4651.4	4677.2	4769.4	4857.8
5°	4305.0	4223.9	4312.4	4341.8	4349.2	4448.7	4551.9	4570.4	4618.3	4762.0
7.5°	3991.7	4083.8	4050.7	4139.1	4231.3	4330.8	4500.3	4452.4	4629.3	4765.7
10°	3925.3	3932.7	3969.6	4002.7	4083.8	4212.8	4448.7	4419.2	4599.8	4891.0
12.5°	3991.7	3991.7	3980.6	3954.8	4047.0	4172.3	4360.3	4375.0	4658.8	4927.9
15°	4223.9	4268.1	4150.2	4168.6	4131.8	4172.3	4338.2	4371.3	4680.9	4957.4
17.5°	4791.5	4776.8	4636.7	4441.4	4279.2	4253.4	4367.6	4404.5	4658.8	5042.1
20°	5344.4	5314.9	5071.6	4868.9	4548.2	4397.1	4415.6	4419.2	4695.7	5097.4
22.5°	5959.9	6037.3	5771.9	5359.1	4961.0	4585.1	4511.4	4570.4	4780.4	5126.9
25°	6925.6	6759.7	6531.2	5989.4	5348.1	4876.3	4669.9	4699.4	4861.5	5200.6
27.5°	7622.2	7555.8	7198.3	6759.7	5889.9	5104.8	4754.6	4809.9	5009.0	5196.9
30°	8293.0	8293.0	8075.5	7419.5	6461.2	5488.1	4935.2	4909.4	4938.9	5189.6
32.5°	9078.1	8971.2	8657.9	8223.0	7179.9	5838.3	5079.0	5086.4	5086.4	5325.9
35°	9490.9	9664.1	9454.0	8746.3	7729.1	6420.6	5425.5	5370.2	5329.6	5477.1
37.5°	10095.3	10198.5	9977.4	9560.9	8410.9	6892.4	5731.4	5687.1	5451.3	5595.0
40°	10460.2	10441.8	10434.4	10242.8	9313.9	7448.9	6181.0	6066.8	5749.8	6011.5
42.5°	10666.6	10629.8	11083.1	10965.2	10165.4	8267.2	6745.0	6682.3	6332.2	6752.3
45°	10898.8	11171.6	11543.8	11875.6	11156.8	9417.1	7699.6	7611.1	7297.8	7832.3
47.5°	11101.5	11437.0	11912.4	12266.3	12052.5	10666.6	8879.0	8901.1	8694.7	9243.9
50°	11440.6	11473.8	12118.8	12833.9	12999.7	11820.3	10463.9	10427.0	10334.9	11105.2
52.5°	11337.4	11437.0	12251.5	13165.6	13438.3	13040.3	12166.7	12277.3	12155.7	13125.0
55°	9656.7	9955.3	12170.4	13515.7	14477.7	14418.7	14356.1	14282.4	14275.0	15395.5
57.5°	8893.8	9137.0	10721.9	13902.7	15590.8	16025.7	16431.2	16512.3	16508.6	17861.3
60°	8392.5	8643.1	10135.9	13692.6	16538.1	18130.3	18908.0	18919.1	18897.0	20496.6
62.5°	7412.1	7655.3	9122.3	12542.7	16799.7	20072.7	21805.0	21948.8	20935.2	22767.0
65°	6232.6	6431.7	7725.4	10784.6	16103.1	21307.4	23983.3	23813.8	22652.8	24064.4
67°	5097.4	5230.1	6490.6	9258.7	14282.4	20714.0	24613.6	24753.6	23445.2	24119.7
67.5°	4773.1	4894.7	6085.2	8739.0	13589.4	20264.4	24635.7	24613.6	23459.9	24130.8
70°	3313.5	3365.1	4146.5	6011.5	10010.6	17120.4	22837.0	22888.6	22475.8	22822.3
72.5°	2196.7	2274.1	2771.7	3789.0	5900.9	12457.9	19088.6	19641.5	19379.8	18712.7
75°	1415.3	1459.6	1813.4	2255.7	2904.4	7095.1	14101.8	14470.3	13869.6	11573.3
77.5°	792.4	840.4	1094.7	1371.1	1415.3	2952.3	7920.7	8377.8	7098.8	4916.8
80°	493.9	556.6	825.6	814.6	674.5	1083.6	3265.6	3497.8	2838.0	1691.8
82.5°	372.3	420.2	637.6	571.3	379.6	482.8	1223.7	1312.1	1039.4	652.4
85°	254.3	320.7	460.7	353.8	199.0	232.2	486.5	523.4	475.5	317.0
87.5°	92.1	136.4	239.6	176.9	88.5	70.0	158.5	176.9	169.5	143.7
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4891.0	0°	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0	4891.0
4935.2	2.5°	5005.3	5056.9	5082.7	5233.8	5296.5	5285.4	5300.1	5322.3	5344.4	5373.9
4997.9	5°	5045.8	5204.3	5289.1	5466.0	5583.9	5532.3	5598.7	5580.3	5554.5	5550.8
5112.2	7.5°	5178.5	5381.2	5635.5	5683.5	5735.1	5606.1	5495.5	5344.4	5307.5	5178.5
5208.0	10°	5414.4	5580.3	5889.9	5908.3	5679.8	5348.1	5101.1	4787.8	4784.1	4596.2
5355.4	12.5°	5639.2	5827.2	6077.8	5971.0	5425.5	4972.1	4570.4	4227.6	4083.8	3988.0
5443.9	15°	5779.3	6088.9	6221.6	5760.9	4979.5	4367.6	3847.9	3479.4	3331.9	3261.9
5554.5	17.5°	5908.3	6339.5	6280.6	5392.3	4430.3	3744.7	3125.5	2804.9	2764.3	2712.7
5731.4	20°	6085.2	6431.7	6070.5	4913.1	3807.4	2941.2	2546.9	2392.1	2428.9	2451.0
5749.8	22.5°	6251.1	6479.6	5805.1	4389.8	3007.6	2329.4	2134.1	2167.2	2222.5	2296.2
5794.0	25°	6324.8	6557.0	5447.6	3667.3	2288.9	1960.8	1916.6	1971.9	2064.0	2067.7
5856.7	27.5°	6372.7	6501.7	5016.3	2963.4	1809.7	1713.9	1780.2	1820.8	1831.8	1876.1
5989.4	30°	6457.5	6387.4	4470.8	2119.3	1518.5	1522.2	1607.0	1607.0	1607.0	1640.2
6122.1	32.5°	6604.9	6310.0	3833.2	1548.0	1308.4	1426.4	1404.3	1396.9	1382.2	1341.6
6291.6	35°	6697.0	6100.0	3026.0	1146.3	1175.8	1308.4	1301.1	1186.8	995.2	899.3
6722.8	37.5°	6888.7	5993.1	2226.2	884.6	1098.4	1249.5	1208.9	932.5	722.4	630.3
7257.3	40°	7301.5	5923.0	1540.7	774.0	1046.8	1220.0	1079.9	796.1	552.9	390.7
8082.9	42.5°	7806.5	5926.7	1046.8	729.8	1050.4	1282.6	1039.4	681.9	390.7	313.3
9184.9	45°	8484.6	5871.4	718.7	729.8	1116.8	1385.9	1065.2	619.2	379.6	398.1
10567.1	47.5°	9214.4	5919.4	534.4	663.4	1127.8	1389.5	973.0	608.2	364.9	460.7
12070.9	50°	10065.8	5967.3	442.3	611.8	1131.5	1345.3	895.6	593.4	379.6	486.5
13795.8	52.5°	10943.1	6118.4	375.9	578.7	1175.8	1326.9	895.6	615.5	379.6	423.9
15992.6	55°	12251.5	6505.4	541.8	722.4	1337.9	1448.5	1102.0	862.5	530.8	545.5
18097.1	57.5°	13696.3	6903.5	604.5	759.3	1374.8	1304.8	1186.8	950.9	560.2	563.9
19733.6	60°	14647.3	6918.2	600.8	740.8	1286.3	1127.8	1161.0	1002.5	571.3	482.8
20747.2	62.5°	15026.9	6468.5	626.6	740.8	1197.9	1054.1	1190.5	1079.9	589.7	604.5
21034.7	65°	14595.7	5539.7	604.5	663.4	1054.1	943.6	1197.9	1094.7	645.0	608.2
20518.7	67°	13921.2	4773.1	615.5	630.3	980.4	895.6	1260.5	1150.0	748.2	729.8
20249.6	67.5°	13729.5	4570.4	611.8	611.8	954.6	880.9	1275.3	1150.0	763.0	755.6
17872.3	70°	12100.4	3704.2	626.6	604.5	844.0	836.7	1356.4	1212.6	877.2	884.6
13128.7	72.5°	9210.7	2808.6	622.9	604.5	733.5	799.8	1367.4	1253.2	954.6	884.6
7353.1	75°	5233.8	1680.7	549.2	527.1	578.7	696.6	1279.0	1194.2	928.8	792.4
2937.6	77.5°	2163.5	866.2	505.0	475.5	479.2	567.6	1065.2	1113.1	884.6	674.5
980.4	80°	807.2	519.7	405.4	379.6	368.6	416.5	759.3	888.3	755.6	552.9
431.2	82.5°	420.2	324.3	276.4	276.4	250.6	265.4	409.1	589.7	571.3	379.6
173.2	85°	213.8	184.3	158.5	154.8	140.1	125.3	206.4	350.1	328.0	210.1
77.4	87.5°	114.3	103.2	66.3	62.7	51.6	33.2	36.9	70.0	114.3	92.1
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>
4891.0
5403.3
5583.9
5222.7
4588.8
3965.9
3247.2
2738.5
2425.2
2255.7
2104.6
1916.6
1677.0
1319.5
943.6
626.6
379.6
305.9
405.4
512.3
563.9
434.9
575.0
545.5
497.6
611.8
597.1
718.7
740.8
818.2
785.1
707.7
637.6
505.0
298.5
173.2
66.3
0.0

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