

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: P477564

Luminaire Tested: **IFLD-L-SA8C-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477564  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

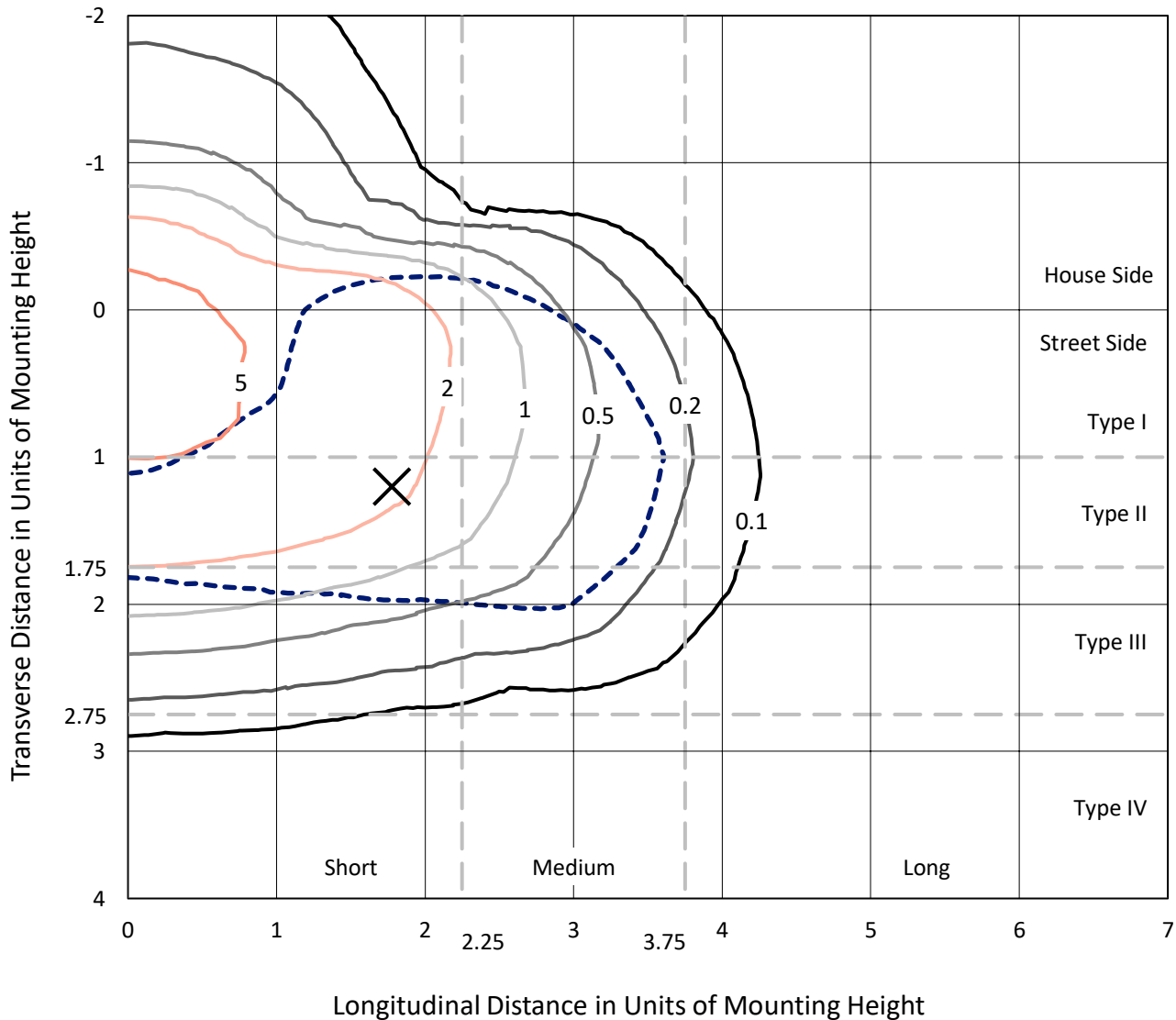
Lumens per Lamp: N/A  
Luminaire Lumens: 41003.2 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

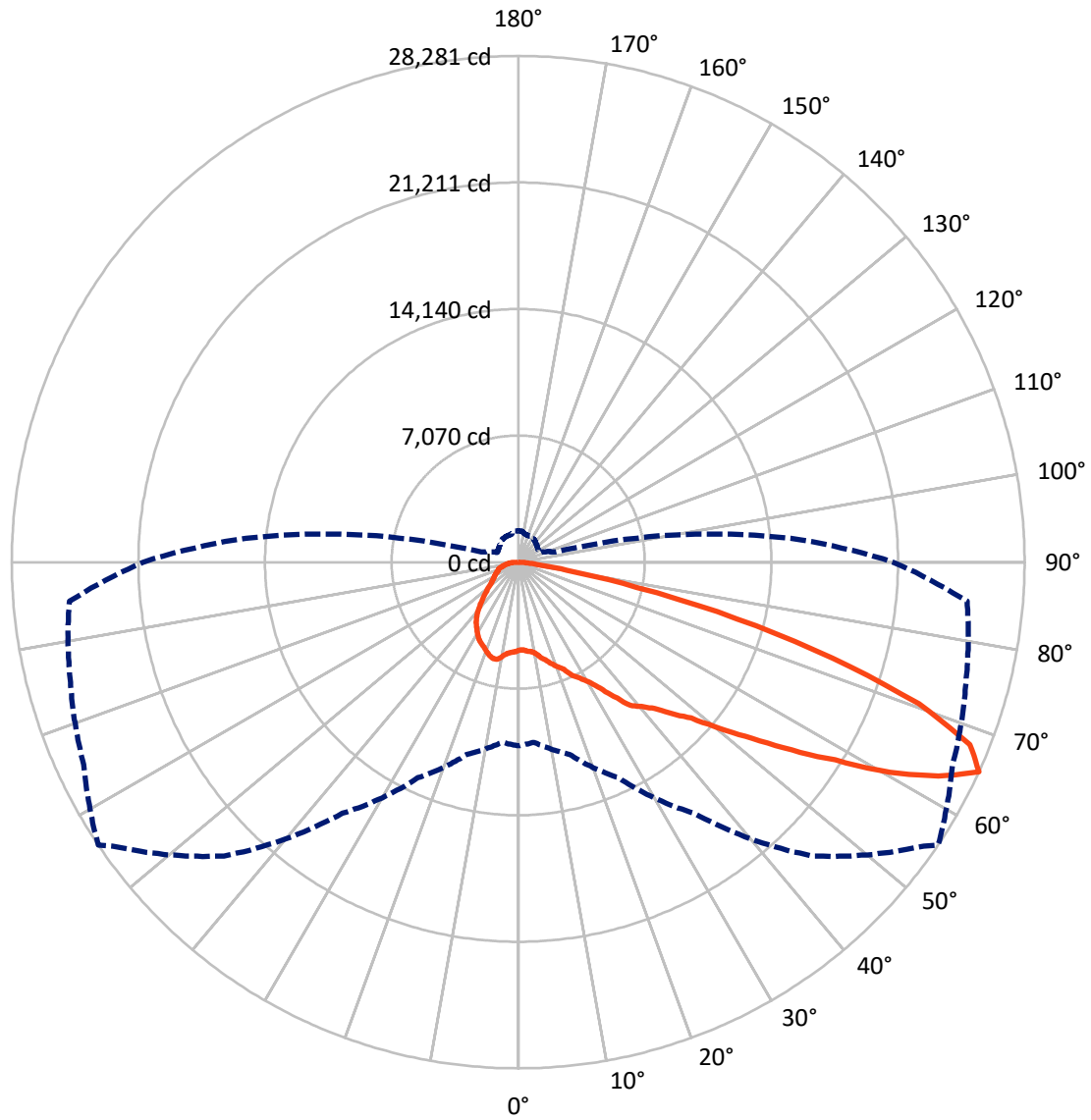
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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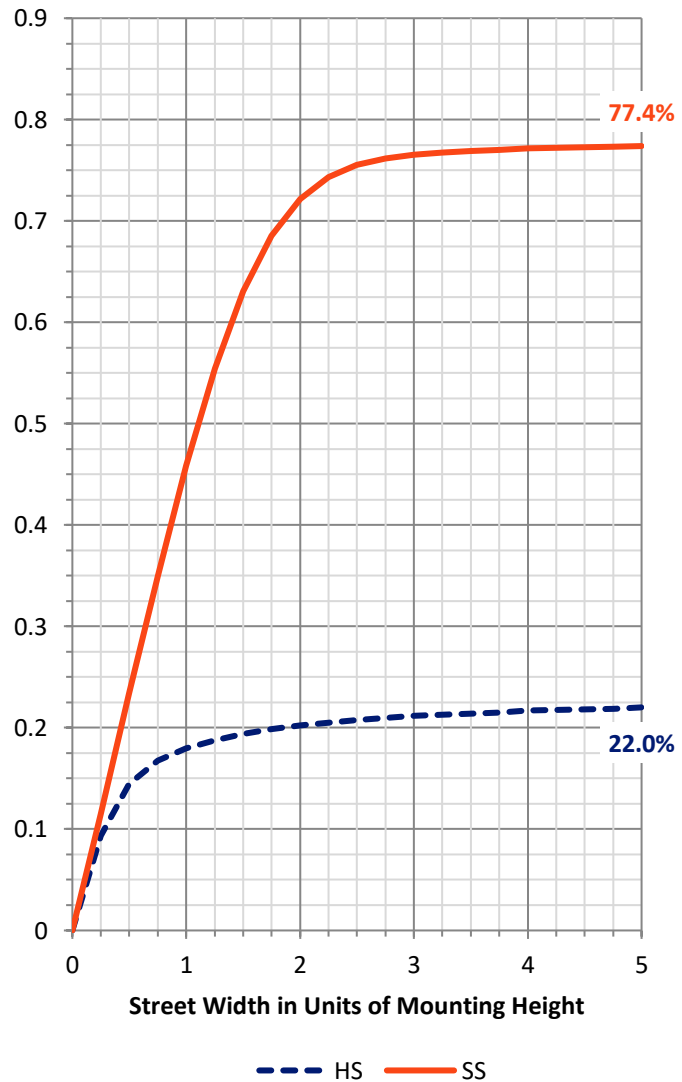
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9195.7	0.0	9195.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	31807.5	0.0	31807.5
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	41003.2	0.0	41003.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.7	1.2
10°-20°	1583.7	3.9
20°-30°	2819.8	6.9
30°-40°	4222.6	10.3
40°-50°	6256.3	15.3
50°-60°	9640.0	23.5
60°-70°	10913.7	26.6
70°-80°	4529.3	11.0
80°-90°	550.3	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°	41003.2	100.0
0°-180°	41003.2	100.0

**Coefficient of Utilization**

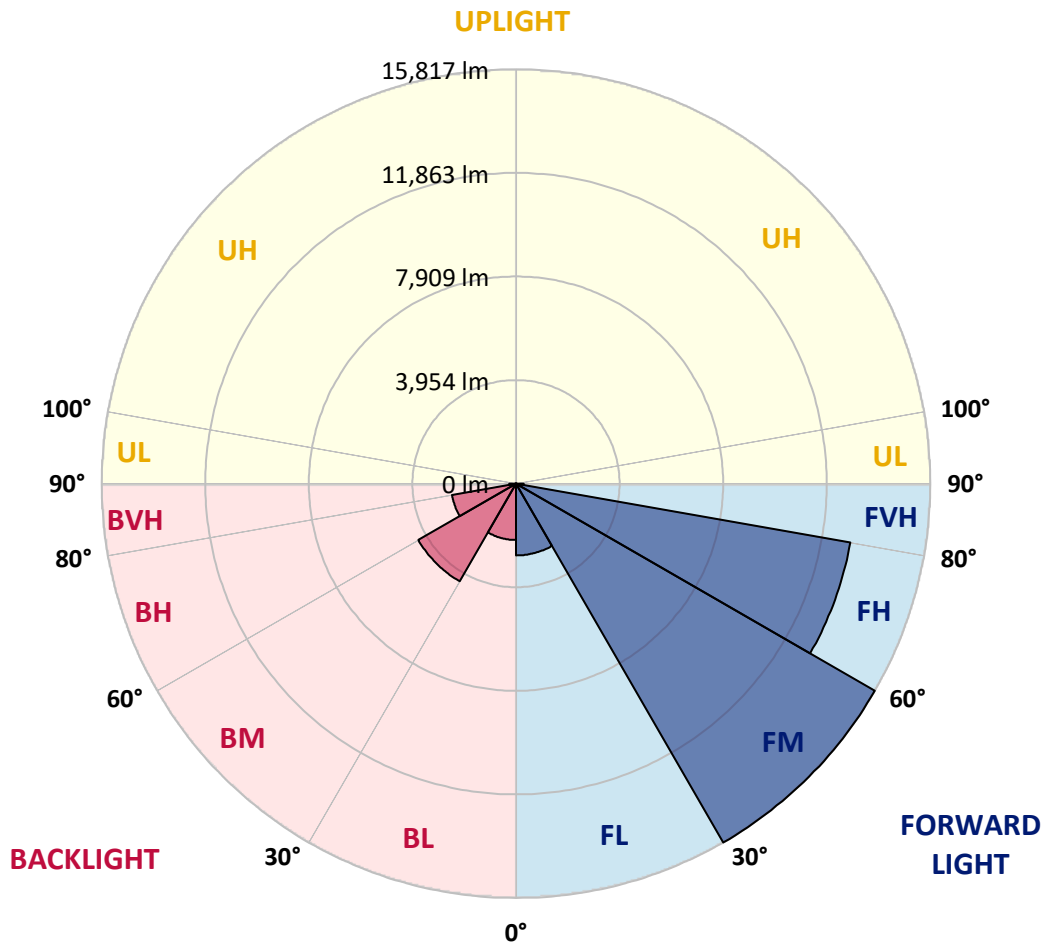


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2740.2	6.7			
FM (30°-60°)	15817.2	38.6			
FH (60°-80°)	12959.8	31.6			G5
FVH (80°-90°)	290.2	0.7			G3/500
BL (0°-30°)	2151.0	5.2	B3/2500		
BM (30°-60°)	4301.6	10.5	B3/5000		
BH (60°-80°)	2483.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	260.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6
2.5°	4792.8	4818.6	4801.4	4852.9	4895.8	4895.8	4930.1	4904.4	4938.7	4985.9
5°	4951.6	4848.6	4904.4	4930.1	4917.3	4938.7	4904.4	4990.2	4934.4	5024.5
7.5°	4990.2	5028.8	5076.0	5033.1	5071.7	5050.3	5054.6	5041.7	5011.7	5084.6
10°	5273.4	5217.6	5324.9	5260.5	5251.9	5243.4	5226.2	5161.8	5234.8	5239.1
12.5°	5599.5	5548.0	5543.7	5492.2	5560.9	5436.4	5462.2	5427.9	5440.7	5457.9
15°	5835.5	5814.0	5912.7	5852.7	5762.5	5706.8	5766.8	5672.4	5719.6	5711.1
17.5°	6303.2	6298.9	6226.0	6127.3	6075.8	5994.3	5981.4	5942.8	5977.1	5959.9
20°	6629.3	6676.5	6689.4	6573.5	6376.1	6286.0	6264.6	6234.5	6273.2	6260.3
22.5°	7127.0	7054.1	7109.9	6908.2	6835.3	6620.7	6543.5	6500.6	6685.1	6637.9
25°	7444.5	7521.8	7466.0	7397.3	7234.3	6968.3	6912.5	7006.9	7079.8	7028.3
27.5°	8161.1	8083.9	8032.4	7826.4	7719.2	7440.3	7375.9	7341.6	7358.7	7388.8
30°	8706.0	8748.9	8633.1	8487.2	8216.9	7933.7	7783.5	7753.5	7693.4	7641.9
32.5°	9482.7	9418.3	9349.7	9255.3	9023.6	8650.3	8504.4	8392.8	8212.6	7972.3
35°	9856.0	10040.5	9989.0	9735.8	9559.9	9418.3	9375.4	9203.8	9053.6	8676.0
37.5°	10478.1	10555.4	10482.4	10400.9	10319.4	10169.2	10117.7	10164.9	9868.8	9246.7
40°	10881.5	11044.5	11194.7	10967.3	10950.1	10980.2	10662.6	10606.9	9997.6	9671.5
42.5°	11705.3	11774.0	11804.0	11795.4	11894.1	11894.1	11289.1	11169.0	10735.6	10469.6
45°	12795.2	12851.0	12958.2	13035.5	12923.9	12979.7	12117.2	12070.0	11683.9	11632.4
47.5°	13739.2	13872.2	14112.5	14339.9	14485.8	14297.0	13353.0	13018.3	12919.6	13228.5
50°	14563.0	14404.2	14966.3	15198.0	15837.4	16150.6	14717.5	14584.4	14425.7	15017.8
52.5°	14644.5	14859.1	15652.9	16116.3	17433.5	18012.8	16390.9	16335.1	16142.0	16824.2
55°	15228.1	15202.3	16000.4	17004.5	18570.6	19544.6	18570.6	18536.3	18115.8	18763.7
57.5°	15129.4	15391.1	16021.9	17425.0	19596.1	21188.0	21097.9	20861.9	20274.0	20801.8
60°	14794.7	14863.3	15631.4	17412.1	20192.5	22874.3	23826.8	23874.0	22672.6	23093.1
62.5°	12898.2	13056.9	14030.9	16043.3	19767.7	24037.1	26491.4	26324.1	25362.9	24882.4
65°	10259.3	10100.6	11113.2	13288.6	17124.6	23213.2	27658.5	28280.7	26770.3	25890.7
67.5°	6290.3	6251.7	7225.7	9143.7	12812.3	19754.9	26727.4	27212.3	26379.9	25676.2
70°	3239.6	3140.9	3750.2	5101.8	8053.8	14494.3	23260.4	23736.7	24530.5	23028.7
72.5°	1510.4	1488.9	1815.0	2510.1	4102.0	8521.5	18012.8	18356.1	20029.5	19415.9
75°	888.2	901.1	1085.6	1313.0	1999.5	4016.2	11954.2	12619.3	14434.3	13992.3
77.5°	665.1	665.1	772.3	913.9	1167.1	1553.3	5899.9	6779.5	8440.0	7590.4
80°	489.2	497.7	592.1	686.5	811.0	802.4	2342.8	2746.1	3870.3	3308.2
82.5°	381.9	394.8	459.1	510.6	570.7	484.9	961.1	1034.1	1591.9	1265.8
85°	266.0	274.6	360.4	347.6	347.6	270.3	399.0	420.5	630.7	600.7
87.5°	64.4	72.9	175.9	193.1	145.9	81.5	124.4	141.6	227.4	261.7
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°
4921.6	0°	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6
5007.4	2.5°	4943.0	4960.2	5033.1	4994.5	5015.9	4925.8	4998.8	4938.7	4990.2	4964.5
5046.0	5°	5080.3	5041.7	5084.6	5054.6	5054.6	5088.9	5140.4	5101.8	5179.0	5144.7
5076.0	7.5°	5136.1	5140.4	5166.1	5170.4	5149.0	5256.2	5260.5	5247.7	5320.6	5303.4
5282.0	10°	5273.4	5277.7	5324.9	5350.6	5329.2	5367.8	5324.9	5290.6	5286.3	5269.1
5445.0	12.5°	5492.2	5535.1	5526.6	5548.0	5552.3	5389.2	5290.6	5123.2	5101.8	5123.2
5685.3	15°	5693.9	5676.7	5685.3	5728.2	5548.0	5286.3	5110.3	4968.8	4977.3	4981.6
5998.5	17.5°	5934.2	5947.1	5959.9	5762.5	5432.2	5123.2	4968.8	4968.8	4925.8	4943.0
6217.4	20°	6208.8	6157.3	6045.7	5766.8	5230.5	4934.4	4887.2	4887.2	4835.7	4801.4
6453.4	22.5°	6423.3	6320.4	6153.0	5633.8	5050.3	4861.5	4745.6	4664.1	4604.0	4535.4
6715.1	25°	6560.6	6504.9	6178.8	5496.5	4917.3	4668.4	4496.8	4372.3	4295.1	4205.0
6921.1	27.5°	6770.9	6663.6	6251.7	5337.8	4771.4	4475.3	4209.3	4016.2	3870.3	3775.9
7234.3	30°	7054.1	6899.6	6200.2	5110.3	4548.3	4140.6	3827.4	3578.5	3411.2	3334.0
7530.4	32.5°	7285.8	7084.1	6157.3	4904.4	4299.4	3801.7	3385.4	3132.3	3037.9	2939.2
8028.1	35°	7727.7	7328.7	6127.3	4788.5	4076.3	3462.7	3025.0	2806.2	2686.0	2540.2
8324.2	37.5°	8066.7	7753.5	6054.3	4548.3	3788.8	3132.3	2750.4	2553.0	2372.8	2218.3
9010.7	40°	8598.8	8345.6	6058.6	4209.3	3449.8	2849.1	2535.9	2329.9	2102.5	1969.5
10027.6	42.5°	9598.5	8929.2	6084.4	3939.0	3067.9	2617.4	2342.8	2098.2	1870.8	1759.2
11186.1	45°	10825.7	9731.5	5925.6	3694.4	2677.5	2398.6	2111.1	1866.5	1720.6	1639.1
12760.8	47.5°	12237.4	10516.8	5711.1	3235.3	2351.4	2166.9	1896.5	1754.9	1647.7	1600.5
14790.4	50°	13816.4	11641.0	5651.0	2814.8	2098.2	1969.5	1793.6	1686.3	1613.3	1557.6
17077.4	52.5°	15850.2	12949.6	5530.8	2381.4	1879.4	1810.7	1754.9	1682.0	1617.6	1570.4
19209.9	55°	17794.0	14399.9	5402.1	2025.3	1724.9	1733.5	1763.5	1699.2	1643.4	1570.4
21599.9	57.5°	19982.3	15880.3	4925.8	1763.5	1609.1	1694.9	1754.9	1682.0	1626.2	1570.4
24045.7	60°	21333.9	16712.7	3994.7	1536.1	1506.1	1621.9	1703.4	1626.2	1566.1	1587.6
25169.9	62.5°	21883.1	16275.0	3012.1	1394.5	1433.1	1523.2	1621.9	1591.9	1549.0	1630.5
25157.0	65°	20947.7	15266.7	2154.0	1274.4	1334.4	1424.5	1549.0	1583.3	1596.2	1754.9
23106.0	67.5°	18639.3	13292.9	1583.3	1175.7	1231.5	1364.5	1600.5	1656.3	1647.7	1845.0
19390.1	70°	14914.8	10396.6	1235.8	1094.2	1192.8	1411.7	1673.4	1673.4	1613.3	1845.0
14790.4	72.5°	10851.4	7328.7	1064.1	999.8	1094.2	1295.8	1664.8	1660.5	1583.3	1686.3
9418.3	75°	6569.2	4265.1	939.7	905.4	939.7	1111.3	1591.9	1566.1	1458.9	1450.3
4531.1	77.5°	3273.9	2145.4	768.1	802.4	819.5	931.1	1398.8	1437.4	1291.5	1257.2
1789.3	80°	1381.6	935.4	639.3	690.8	690.8	785.2	1162.8	1188.6	1072.7	1008.3
708.0	82.5°	630.7	536.4	544.9	600.7	562.1	609.3	922.5	952.6	871.0	763.8
300.4	85°	266.0	304.6	416.2	472.0	416.2	394.8	635.0	669.4	566.4	472.0
128.7	87.5°	120.1	167.3	261.7	343.3	210.2	184.5	339.0	351.8	283.2	210.2
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>
4921.6
4917.3
5097.5
5277.7
5269.1
5131.8
5041.7
4947.3
4749.9
4496.8
4222.2
3818.8
3376.9
2934.9
2527.3
2222.6
1982.4
1767.8
1656.3
1591.9
1566.1
1566.1
1566.1
1566.1
1570.4
1609.1
1754.9
1857.9
1806.4
1626.2
1433.1
1235.8
986.9
746.6
476.3
197.4
0.0

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