

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: P477359

Luminaire Tested: **IFLD-M-SA4C-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477359
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

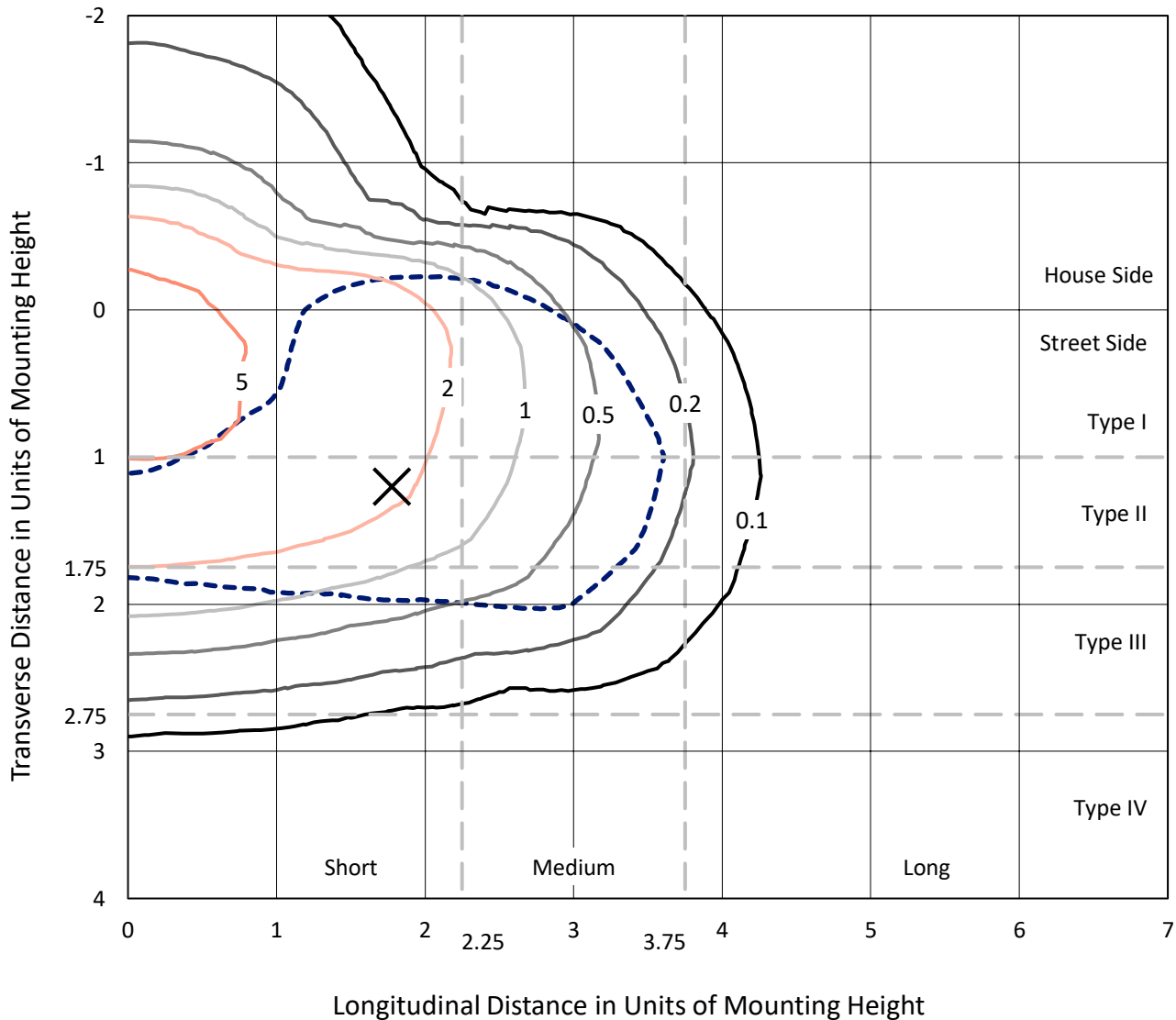
Lumens per Lamp: N/A
Luminaire Lumens: 28561.5 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (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

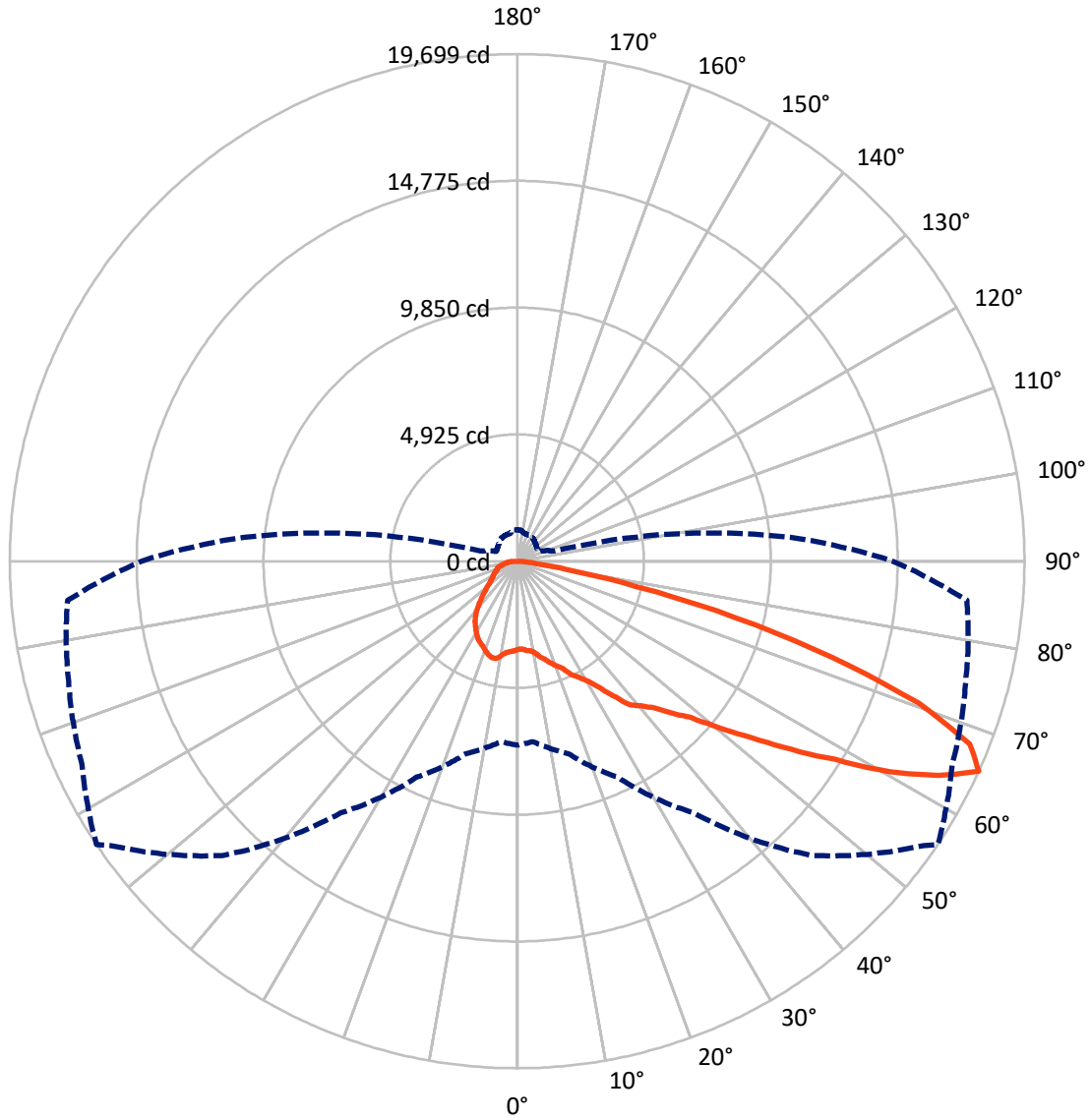
✕ Max cd
 - - - 1/2 Max cd



Based on 25 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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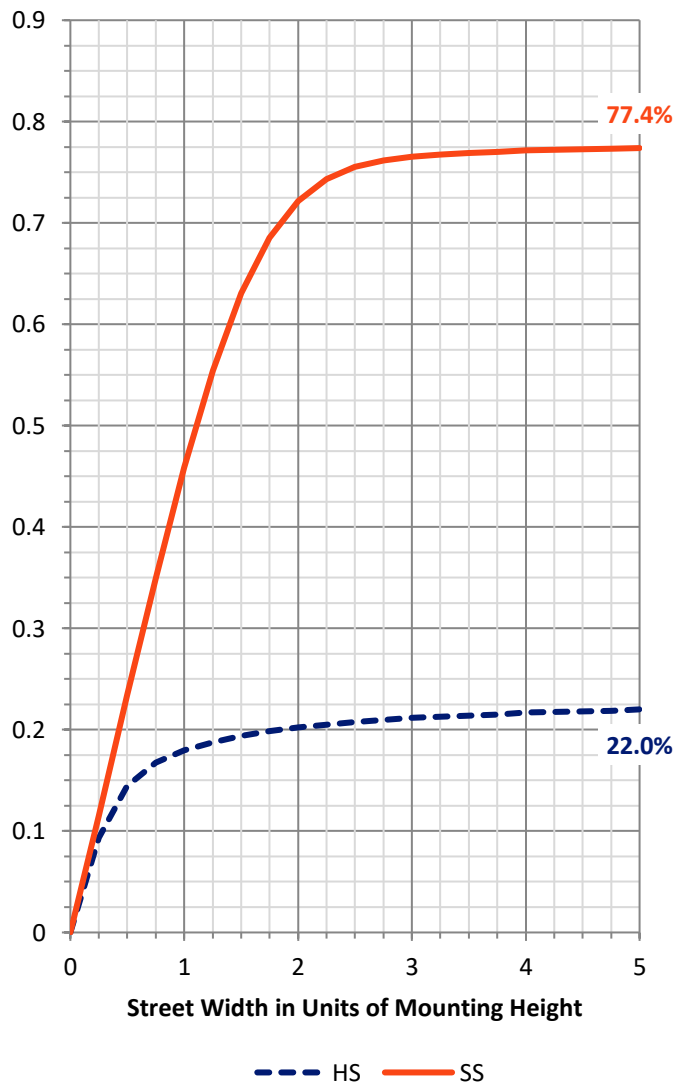
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6405.4	0.0	6405.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22156.1	0.0	22156.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	28561.5	0.0	28561.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.2
10°-20°	1103.1	3.9
20°-30°	1964.2	6.9
30°-40°	2941.3	10.3
40°-50°	4357.9	15.3
50°-60°	6714.9	23.5
60°-70°	7602.1	26.6
70°-80°	3155.0	11.0
80°-90°	383.3	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°	28561.5	100.0
0°-180°	28561.5	100.0

Coefficient of Utilization

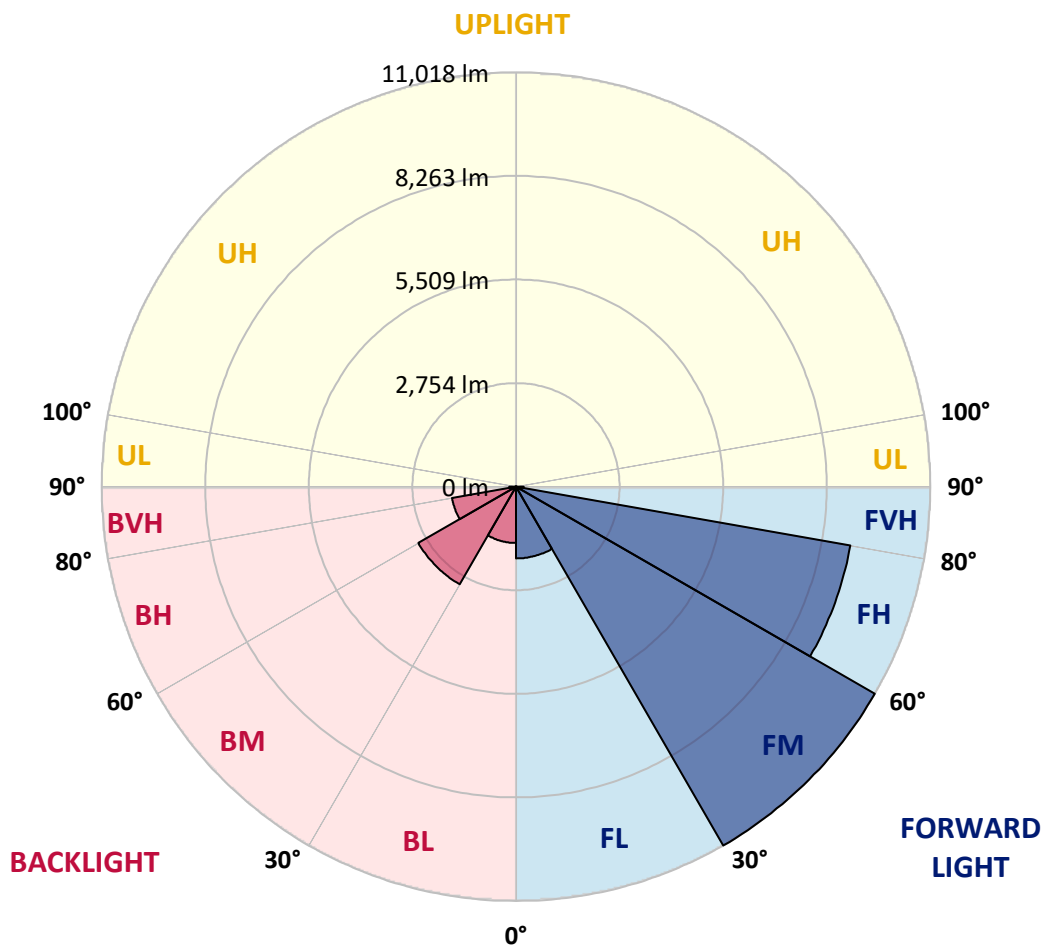


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.7	6.7			
FM (30°-60°)	11017.8	38.6			
FH (60°-80°)	9027.4	31.6			G4/12000
FVH (80°-90°)	202.2	0.7			G2/225
BL (0°-30°)	1498.3	5.2	B3/2500		
BM (30°-60°)	2996.3	10.5	B3/5000		
BH (60°-80°)	1729.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	181.1	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°	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2
2.5°	3338.5	3356.5	3344.5	3380.4	3410.3	3410.3	3434.2	3416.2	3440.2	3473.0
5°	3449.1	3377.4	3416.2	3434.2	3425.2	3440.2	3416.2	3476.0	3437.2	3499.9
7.5°	3476.0	3502.9	3535.8	3505.9	3532.8	3517.9	3520.9	3511.9	3491.0	3541.8
10°	3673.3	3634.4	3709.1	3664.3	3658.3	3652.4	3640.4	3595.6	3646.4	3649.4
12.5°	3900.4	3864.6	3861.6	3825.7	3873.5	3786.9	3804.8	3780.9	3789.8	3801.8
15°	4064.8	4049.9	4118.6	4076.8	4014.0	3975.2	4017.0	3951.2	3984.1	3978.1
17.5°	4390.6	4387.6	4336.8	4268.1	4232.2	4175.4	4166.4	4139.5	4163.5	4151.5
20°	4617.8	4650.6	4659.6	4578.9	4441.4	4378.6	4363.7	4342.8	4369.7	4360.7
22.5°	4964.5	4913.7	4952.5	4812.0	4761.2	4611.8	4558.0	4528.1	4656.6	4623.7
25°	5185.6	5239.4	5200.6	5152.8	5039.2	4853.9	4815.0	4880.8	4931.6	4895.7
27.5°	5684.8	5631.0	5595.1	5451.6	5376.9	5182.6	5137.8	5113.9	5125.9	5146.8
30°	6064.4	6094.2	6013.5	5911.9	5723.6	5526.4	5421.8	5400.8	5359.0	5323.1
32.5°	6605.3	6560.5	6512.7	6446.9	6285.5	6025.5	5923.9	5846.2	5720.6	5553.3
35°	6865.4	6993.9	6958.0	6781.7	6659.1	6560.5	6530.6	6411.1	6306.4	6043.4
37.5°	7298.7	7352.5	7301.7	7244.9	7188.2	7083.5	7047.7	7080.6	6874.3	6440.9
40°	7579.7	7693.3	7797.9	7639.5	7627.5	7648.4	7427.3	7388.4	6964.0	6736.8
42.5°	8153.6	8201.4	8222.3	8216.3	8285.1	8285.1	7863.6	7779.9	7478.1	7292.8
45°	8912.7	8951.6	9026.3	9080.1	9002.4	9041.2	8440.5	8407.6	8138.6	8102.7
47.5°	9570.3	9662.9	9830.3	9988.7	10090.3	9958.8	9301.3	9068.1	8999.4	9214.6
50°	10144.1	10033.5	10425.1	10586.5	11031.8	11250.0	10251.7	10159.1	10048.5	10460.9
52.5°	10200.9	10350.3	10903.3	11226.1	12143.6	12547.1	11417.4	11378.5	11244.0	11719.2
55°	10607.4	10589.5	11145.4	11844.8	12935.7	13614.2	12935.7	12911.8	12618.9	13070.2
57.5°	10538.6	10721.0	11160.3	12137.7	13650.0	14758.9	14696.1	14531.7	14122.3	14489.9
60°	10305.5	10353.3	10888.3	12128.7	14065.5	15933.5	16597.0	16629.9	15793.0	16085.9
62.5°	8984.4	9095.0	9773.5	11175.3	13769.6	16743.5	18453.1	18336.5	17667.0	17332.3
65°	7146.3	7035.7	7741.1	9256.4	11928.5	16169.6	19266.1	19699.4	18647.4	18034.6
67.5°	4381.6	4354.7	5033.2	6369.2	8924.7	13760.6	18617.5	18955.2	18375.4	17885.2
70°	2256.6	2187.8	2612.2	3553.7	5610.0	10096.3	16202.5	16534.3	17087.2	16041.1
72.5°	1052.1	1037.1	1264.3	1748.5	2857.3	5935.8	12547.1	12786.2	13951.9	13524.5
75°	618.7	627.7	756.2	914.6	1392.8	2797.6	8326.9	8790.2	10054.5	9746.6
77.5°	463.3	463.3	538.0	636.6	813.0	1082.0	4109.7	4722.4	5879.0	5287.3
80°	340.7	346.7	412.5	478.2	564.9	558.9	1631.9	1912.9	2695.9	2304.4
82.5°	266.0	275.0	319.8	355.7	397.5	337.7	669.5	720.3	1108.9	881.7
85°	185.3	191.3	251.1	242.1	242.1	188.3	278.0	292.9	439.4	418.4
87.5°	44.8	50.8	122.5	134.5	101.6	56.8	86.7	98.6	158.4	182.3
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3428.2	0°	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2	3428.2
3488.0	2.5°	3443.1	3455.1	3505.9	3479.0	3494.0	3431.2	3482.0	3440.2	3476.0	3458.1
3514.9	5°	3538.8	3511.9	3541.8	3520.9	3520.9	3544.8	3580.6	3553.7	3607.5	3583.6
3535.8	7.5°	3577.6	3580.6	3598.6	3601.6	3586.6	3661.3	3664.3	3655.3	3706.2	3694.2
3679.3	10°	3673.3	3676.3	3709.1	3727.1	3712.1	3739.0	3709.1	3685.2	3682.2	3670.3
3792.8	12.5°	3825.7	3855.6	3849.6	3864.6	3867.6	3754.0	3685.2	3568.7	3553.7	3568.7
3960.2	15°	3966.2	3954.2	3960.2	3990.1	3864.6	3682.2	3559.7	3461.1	3467.1	3470.0
4178.4	17.5°	4133.6	4142.5	4151.5	4014.0	3783.9	3568.7	3461.1	3461.1	3431.2	3443.1
4330.8	20°	4324.8	4289.0	4211.3	4017.0	3643.4	3437.2	3404.3	3404.3	3368.4	3344.5
4495.2	22.5°	4474.3	4402.6	4286.0	3924.3	3517.9	3386.4	3305.7	3248.9	3207.0	3159.2
4677.5	25°	4569.9	4531.1	4303.9	3828.7	3425.2	3251.9	3132.3	3045.6	2991.8	2929.1
4821.0	27.5°	4716.4	4641.7	4354.7	3718.1	3323.6	3117.4	2932.1	2797.6	2695.9	2630.2
5039.2	30°	4913.7	4806.1	4318.9	3559.7	3168.2	2884.2	2666.0	2492.7	2376.1	2322.3
5245.4	32.5°	5075.0	4934.6	4289.0	3416.2	2994.8	2648.1	2358.2	2181.9	2116.1	2047.4
5592.1	35°	5382.9	5104.9	4268.1	3335.5	2839.4	2412.0	2107.1	1954.7	1871.0	1769.4
5798.3	37.5°	5619.0	5400.8	4217.3	3168.2	2639.1	2181.9	1915.8	1778.4	1652.8	1545.2
6276.6	40°	5989.6	5813.3	4220.2	2932.1	2403.0	1984.6	1766.4	1622.9	1464.5	1371.9
6984.9	42.5°	6686.0	6219.8	4238.2	2743.8	2137.0	1823.2	1631.9	1461.5	1303.1	1225.4
7791.9	45°	7540.8	6778.7	4127.6	2573.4	1865.0	1670.8	1470.5	1300.1	1198.5	1141.7
8888.8	47.5°	8524.2	7325.6	3978.1	2253.6	1637.9	1509.4	1321.1	1222.4	1147.7	1114.8
10302.5	50°	9624.1	8108.7	3936.3	1960.7	1461.5	1371.9	1249.3	1174.6	1123.8	1084.9
11895.6	52.5°	11040.8	9020.3	3852.6	1658.8	1309.1	1261.3	1222.4	1171.6	1126.8	1093.9
13381.0	55°	12394.7	10030.5	3762.9	1410.7	1201.5	1207.5	1228.4	1183.6	1144.7	1093.9
15045.8	57.5°	13919.0	11061.7	3431.2	1228.4	1120.8	1180.6	1222.4	1171.6	1132.8	1093.9
16749.4	60°	14860.5	11641.5	2782.6	1070.0	1049.1	1129.8	1186.6	1132.8	1090.9	1105.9
17532.5	62.5°	15243.1	11336.7	2098.2	971.4	998.3	1061.0	1129.8	1108.9	1079.0	1135.8
17523.6	65°	14591.5	10634.3	1500.4	887.7	929.5	992.3	1079.0	1102.9	1111.8	1222.4
16094.9	67.5°	12983.5	9259.4	1102.9	818.9	857.8	950.5	1114.8	1153.7	1147.7	1285.2
13506.6	70°	10389.2	7242.0	860.8	762.2	830.9	983.3	1165.6	1165.6	1123.8	1285.2
10302.5	72.5°	7558.8	5104.9	741.2	696.4	762.2	902.6	1159.7	1156.7	1102.9	1174.6
6560.5	75°	4575.9	2970.9	654.6	630.6	654.6	774.1	1108.9	1090.9	1016.2	1010.2
3156.2	77.5°	2280.5	1494.4	535.0	558.9	570.9	648.6	974.4	1001.3	899.6	875.7
1246.3	80°	962.4	651.6	445.3	481.2	481.2	547.0	810.0	827.9	747.2	702.4
493.2	82.5°	439.4	373.6	379.6	418.4	391.5	424.4	642.6	663.5	606.7	532.0
209.2	85°	185.3	212.2	289.9	328.8	289.9	275.0	442.3	466.3	394.5	328.8
89.7	87.5°	83.7	116.6	182.3	239.1	146.5	128.5	236.1	245.1	197.3	146.5
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>
3428.2
3425.2
3550.7
3676.3
3670.3
3574.7
3511.9
3446.1
3308.6
3132.3
2941.0
2660.1
2352.2
2044.4
1760.4
1548.2
1380.8
1231.4
1153.7
1108.9
1090.9
1090.9
1090.9
1090.9
1093.9
1120.8
1222.4
1294.2
1258.3
1132.8
998.3
860.8
687.4
520.1
331.8
137.5
0.0

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