

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: P477436

Luminaire Tested: **IFLD-M-SA4B-750-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477436
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

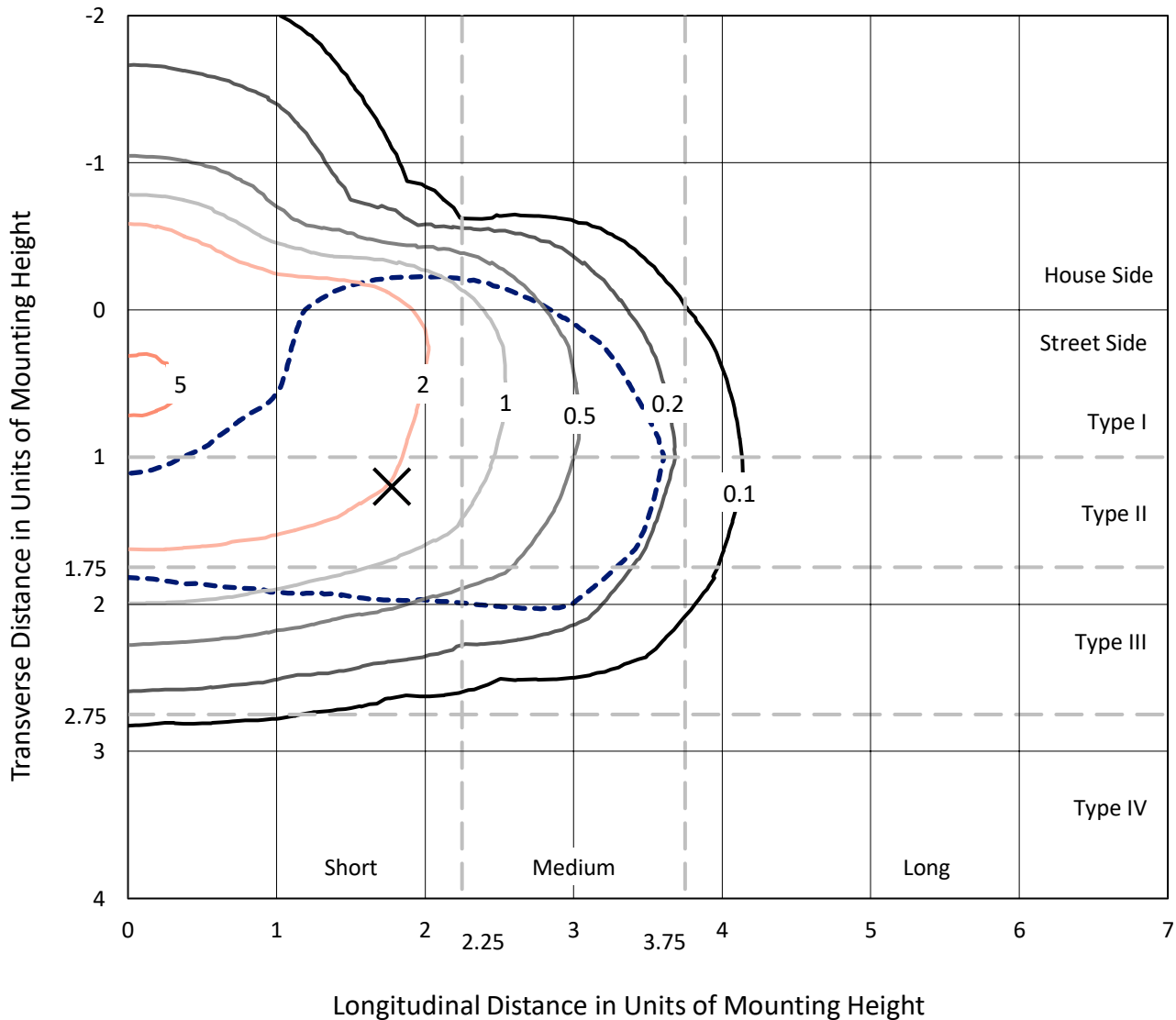
Lumens per Lamp: N/A
Luminaire Lumens: 23795.1 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

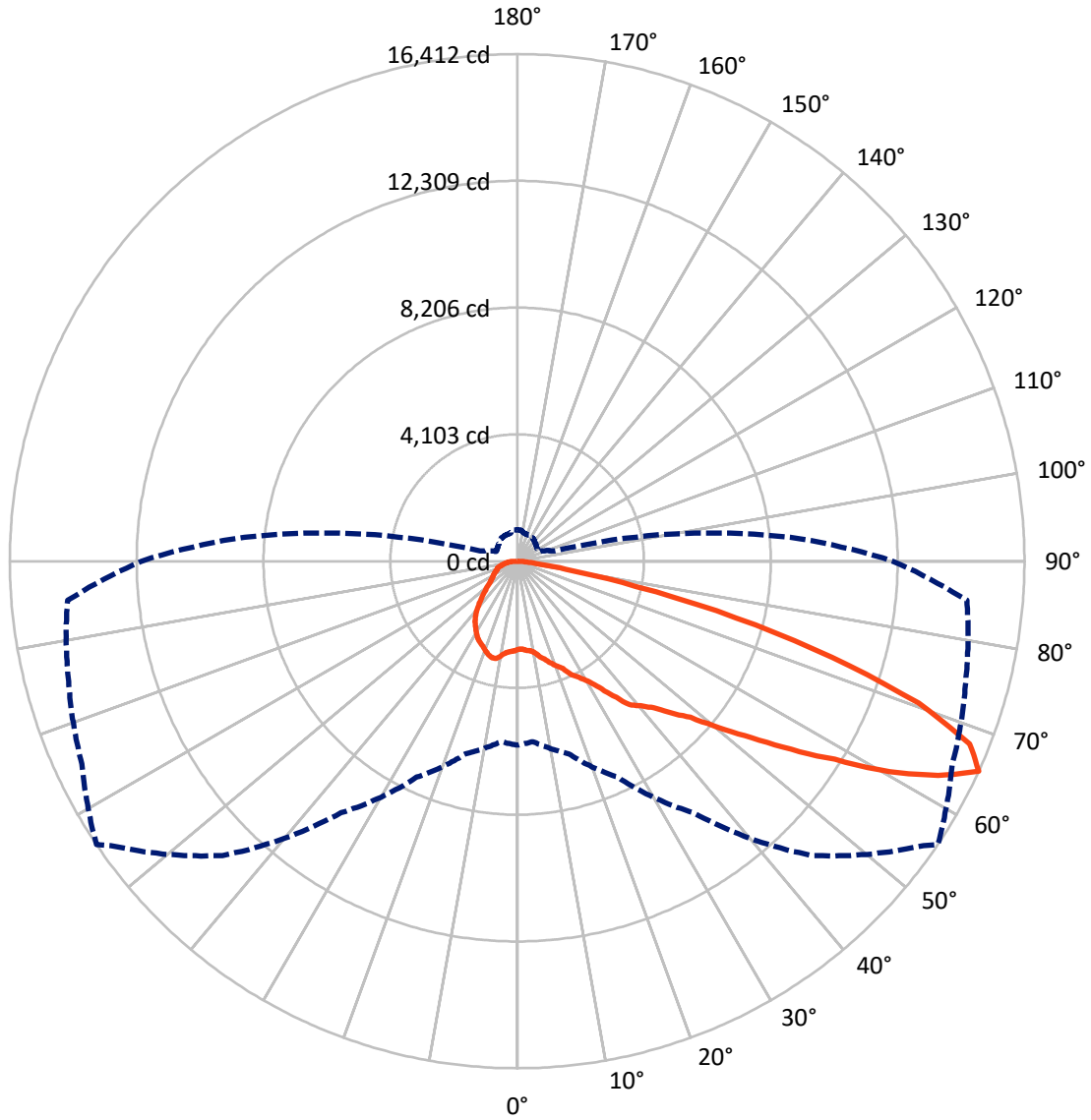
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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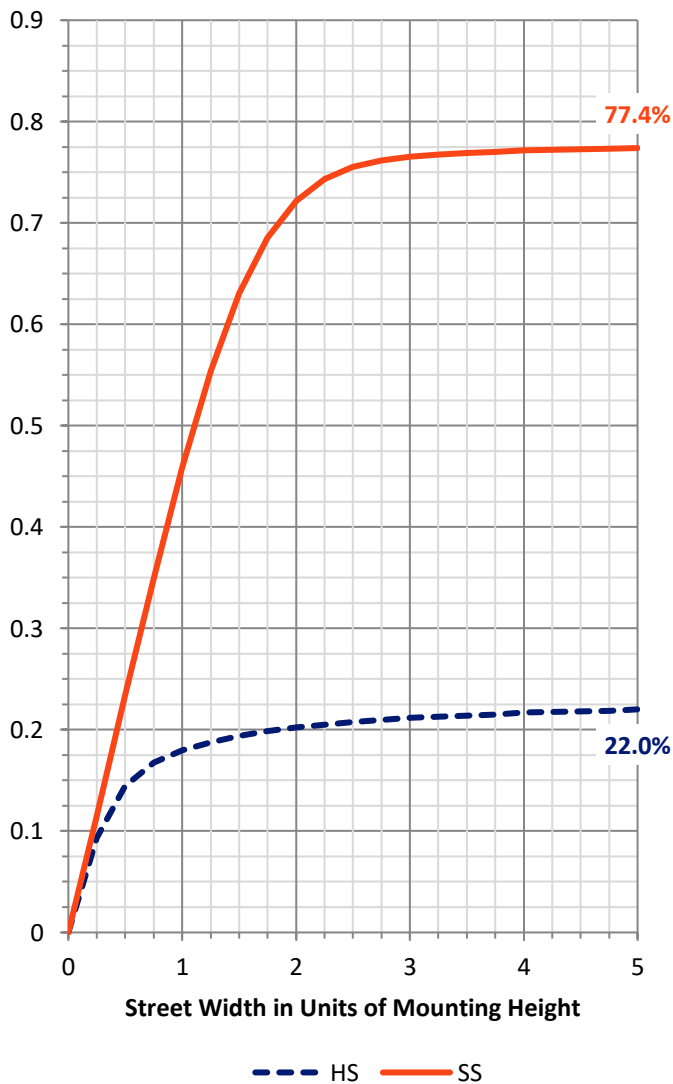
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5336.5	0.0	5336.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18458.7	0.0	18458.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	23795.1	0.0	23795.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.0	1.2
10°-20°	919.0	3.9
20°-30°	1636.4	6.9
30°-40°	2450.5	10.3
40°-50°	3630.7	15.3
50°-60°	5594.3	23.5
60°-70°	6333.5	26.6
70°-80°	2628.5	11.0
80°-90°	319.3	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°	23795.1	100.0
0°-180°	23795.1	100.0

Coefficient of Utilization

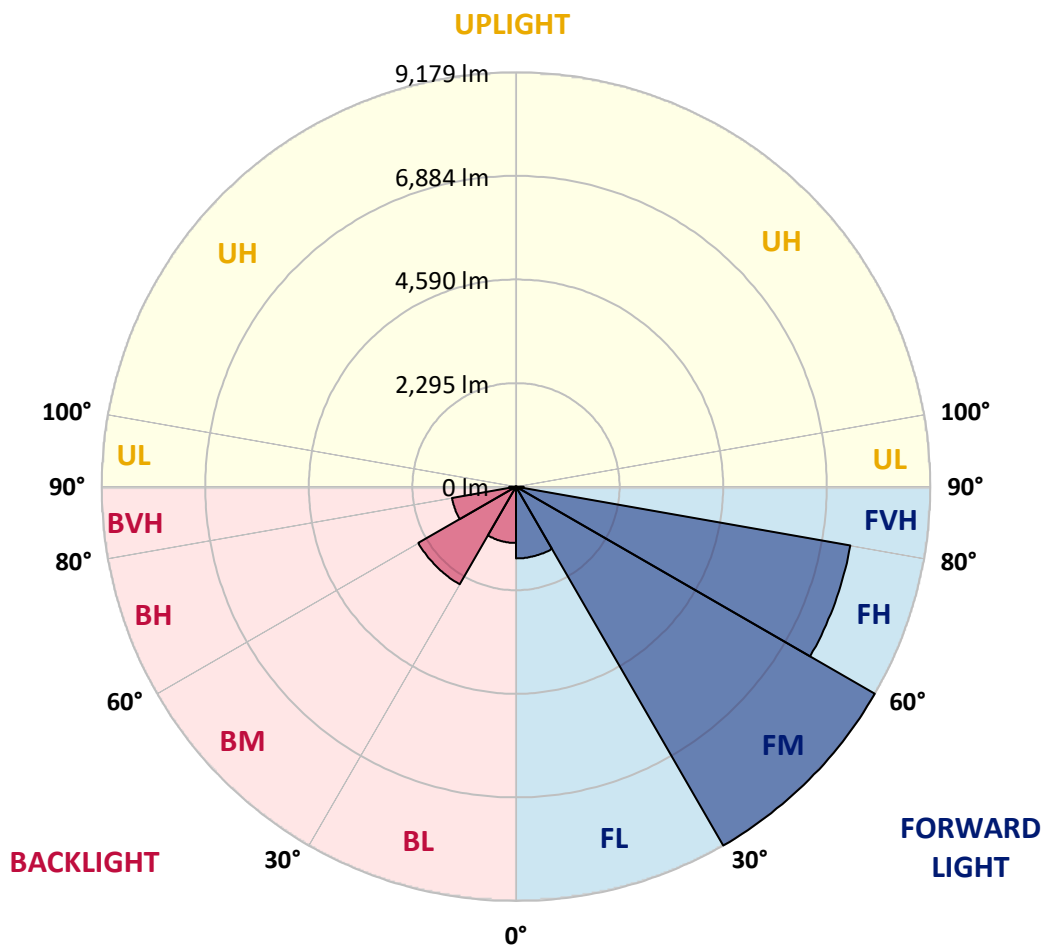


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1590.2	6.7			
FM (30°-60°)	9179.1	38.6			
FH (60°-80°)	7520.9	31.6			G4/12000
FVH (80°-90°)	168.4	0.7			G2/225
BL (0°-30°)	1248.3	5.2	B3/2500		
BM (30°-60°)	2496.3	10.5	B2/2500		
BH (60°-80°)	1441.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	150.9	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°	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1
2.5°	2781.4	2796.3	2786.4	2816.3	2841.2	2841.2	2861.1	2846.1	2866.1	2893.4
5°	2873.5	2813.8	2846.1	2861.1	2853.6	2866.1	2846.1	2895.9	2863.6	2915.9
7.5°	2895.9	2918.3	2945.7	2920.8	2943.2	2930.8	2933.3	2925.8	2908.4	2950.7
10°	3060.3	3027.9	3090.2	3052.8	3047.8	3042.9	3032.9	2995.5	3037.9	3040.4
12.5°	3249.5	3219.6	3217.2	3187.3	3227.1	3154.9	3169.8	3149.9	3157.4	3167.4
15°	3386.5	3374.0	3431.3	3396.4	3344.1	3311.8	3346.6	3291.9	3319.2	3314.3
17.5°	3657.9	3655.4	3613.1	3555.8	3525.9	3478.6	3471.1	3448.7	3468.7	3458.7
20°	3847.1	3874.5	3882.0	3814.8	3700.2	3647.9	3635.5	3618.1	3640.5	3633.0
22.5°	4136.0	4093.7	4126.0	4009.0	3966.7	3842.2	3797.3	3772.4	3879.5	3852.1
25°	4320.3	4365.1	4332.7	4292.9	4198.2	4043.9	4011.5	4066.3	4108.6	4078.7
27.5°	4736.1	4691.3	4661.4	4541.9	4479.6	4317.8	4280.4	4260.5	4270.5	4287.9
30°	5052.3	5077.2	5010.0	4925.3	4768.5	4604.1	4517.0	4499.5	4464.7	4434.8
32.5°	5503.0	5465.7	5425.8	5371.1	5236.6	5020.0	4935.3	4870.6	4766.0	4626.5
35°	5719.7	5826.7	5796.9	5649.9	5547.9	5465.7	5440.8	5341.2	5254.0	5034.9
37.5°	6080.7	6125.5	6083.2	6035.9	5988.6	5901.4	5871.6	5898.9	5727.1	5366.1
40°	6314.8	6409.4	6496.6	6364.6	6354.6	6372.1	6187.8	6155.4	5801.8	5612.6
42.5°	6792.9	6832.7	6850.2	6845.2	6902.4	6902.4	6551.3	6481.6	6230.1	6075.7
45°	7425.4	7457.7	7520.0	7564.8	7500.1	7532.4	7031.9	7004.5	6780.4	6750.5
47.5°	7973.2	8050.4	8189.8	8321.8	8406.4	8296.9	7749.1	7554.8	7497.6	7676.9
50°	8451.3	8359.1	8685.3	8819.8	9190.8	9372.6	8540.9	8463.7	8371.6	8715.2
52.5°	8498.6	8623.1	9083.7	9352.7	10117.1	10453.3	9512.0	9479.7	9367.6	9763.5
55°	8837.2	8822.3	9285.4	9868.1	10777.0	11342.2	10777.0	10757.1	10513.0	10889.0
57.5°	8779.9	8931.8	9297.9	10112.1	11372.1	12295.9	12243.6	12106.7	11765.5	12071.8
60°	8585.7	8625.6	9071.3	10104.7	11718.2	13274.5	13827.3	13854.7	13157.5	13401.5
62.5°	7485.1	7577.2	8142.5	9310.3	11471.7	13949.3	15373.6	15276.5	14718.7	14439.8
65°	5953.7	5861.6	6449.3	7711.7	9937.8	13471.2	16050.9	16412.0	15535.5	15025.0
67.5°	3650.4	3628.0	4193.3	5306.3	7435.3	11464.2	15510.6	15792.0	15308.9	14900.5
70°	1880.0	1822.7	2176.3	2960.7	4673.8	8411.4	13498.6	13775.0	14235.7	13364.1
72.5°	876.5	864.1	1053.3	1456.7	2380.5	4945.3	10453.3	10652.5	11623.6	11267.5
75°	515.4	522.9	630.0	762.0	1160.4	2330.7	6937.3	7323.3	8376.6	8120.1
77.5°	386.0	386.0	448.2	530.4	677.3	901.4	3423.8	3934.3	4897.9	4404.9
80°	283.9	288.8	343.6	398.4	470.6	465.6	1359.6	1593.6	2246.0	1919.8
82.5°	221.6	229.1	266.4	296.3	331.2	281.4	557.8	600.1	923.8	734.6
85°	154.4	159.4	209.2	201.7	201.7	156.9	231.6	244.0	366.0	348.6
87.5°	37.4	42.3	102.1	112.1	84.7	47.3	72.2	82.2	132.0	151.9
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°
2856.1	0°	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1	2856.1
2905.9	2.5°	2868.5	2878.5	2920.8	2898.4	2910.9	2858.6	2900.9	2866.1	2895.9	2881.0
2928.3	5°	2948.2	2925.8	2950.7	2933.3	2933.3	2953.2	2983.1	2960.7	3005.5	2985.6
2945.7	7.5°	2980.6	2983.1	2998.0	3000.5	2988.1	3050.3	3052.8	3045.3	3087.7	3077.7
3065.3	10°	3060.3	3062.8	3090.2	3105.1	3092.7	3115.1	3090.2	3070.2	3067.8	3057.8
3159.9	12.5°	3187.3	3212.2	3207.2	3219.6	3222.1	3127.5	3070.2	2973.1	2960.7	2973.1
3299.3	15°	3304.3	3294.3	3299.3	3324.2	3219.6	3067.8	2965.7	2883.5	2888.5	2891.0
3481.1	17.5°	3443.8	3451.2	3458.7	3344.1	3152.4	2973.1	2883.5	2883.5	2858.6	2868.5
3608.1	20°	3603.1	3573.2	3508.5	3346.6	3035.4	2863.6	2836.2	2836.2	2806.3	2786.4
3745.0	22.5°	3727.6	3667.9	3570.7	3269.4	2930.8	2821.2	2754.0	2706.7	2671.8	2632.0
3896.9	25°	3807.3	3774.9	3585.7	3189.8	2853.6	2709.2	2609.6	2537.4	2492.5	2440.3
4016.5	27.5°	3929.3	3867.1	3628.0	3097.6	2768.9	2597.1	2442.7	2330.7	2246.0	2191.3
4198.2	30°	4093.7	4004.0	3598.1	2965.7	2639.5	2402.9	2221.1	2076.7	1979.6	1934.8
4370.1	32.5°	4228.1	4111.1	3573.2	2846.1	2495.0	2206.2	1964.7	1817.7	1763.0	1705.7
4658.9	35°	4484.6	4253.0	3555.8	2778.9	2365.6	2009.5	1755.5	1628.5	1558.8	1474.1
4830.7	37.5°	4681.3	4499.5	3513.5	2639.5	2198.7	1817.7	1596.1	1481.6	1377.0	1287.4
5229.1	40°	4990.1	4843.2	3516.0	2442.7	2002.0	1653.4	1471.6	1352.1	1220.1	1142.9
5819.3	42.5°	5570.3	5181.8	3530.9	2285.9	1780.4	1518.9	1359.6	1217.6	1085.7	1020.9
6491.6	45°	6282.4	5647.5	3438.8	2143.9	1553.8	1391.9	1225.1	1083.2	998.5	951.2
7405.4	47.5°	7101.6	6103.1	3314.3	1877.5	1364.6	1257.5	1100.6	1018.4	956.2	928.8
8583.2	50°	8018.0	6755.5	3279.4	1633.5	1217.6	1142.9	1040.8	978.6	936.3	903.9
9910.4	52.5°	9198.3	7515.0	3209.7	1382.0	1090.6	1050.8	1018.4	976.1	938.8	911.4
11148.0	55°	10326.3	8356.6	3135.0	1175.3	1001.0	1006.0	1023.4	986.1	953.7	911.4
12535.0	57.5°	11596.2	9215.7	2858.6	1023.4	933.8	983.6	1018.4	976.1	943.7	911.4
13954.3	60°	12380.6	9698.8	2318.2	891.4	874.0	941.2	988.6	943.7	908.9	921.3
14606.7	62.5°	12699.3	9444.8	1748.0	809.3	831.7	884.0	941.2	923.8	898.9	946.2
14599.2	65°	12156.5	8859.6	1250.0	739.5	774.4	826.7	898.9	918.8	926.3	1018.4
13409.0	67.5°	10816.8	7714.2	918.8	682.3	714.6	791.8	928.8	961.2	956.2	1070.7
11252.6	70°	8655.4	6033.4	717.1	635.0	692.2	819.2	971.1	971.1	936.3	1070.7
8583.2	72.5°	6297.4	4253.0	617.5	580.2	635.0	752.0	966.1	963.7	918.8	978.6
5465.7	75°	3812.3	2475.1	545.3	525.4	545.3	644.9	923.8	908.9	846.6	841.6
2629.5	77.5°	1899.9	1245.0	445.7	465.6	475.6	540.3	811.8	834.2	749.5	729.6
1038.4	80°	801.8	542.8	371.0	400.9	400.9	455.7	674.8	689.7	622.5	585.2
410.9	82.5°	366.0	311.3	316.2	348.6	326.2	353.6	535.4	552.8	505.5	443.2
174.3	85°	154.4	176.8	241.5	273.9	241.5	229.1	368.5	388.4	328.7	273.9
74.7	87.5°	69.7	97.1	151.9	199.2	122.0	107.1	196.7	204.2	164.3	122.0
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>
2856.1
2853.6
2958.2
3062.8
3057.8
2978.1
2925.8
2871.0
2756.5
2609.6
2450.2
2216.2
1959.7
1703.2
1466.6
1289.9
1150.4
1025.9
961.2
923.8
908.9
908.9
908.9
908.9
911.4
933.8
<i>1018.4</i>
1078.2
1048.3
943.7
831.7
717.1
572.7
433.3
276.4
114.5
0.0

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