

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: P477397

Luminaire Tested: **IFLD-M-SA4B-740-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477397  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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**

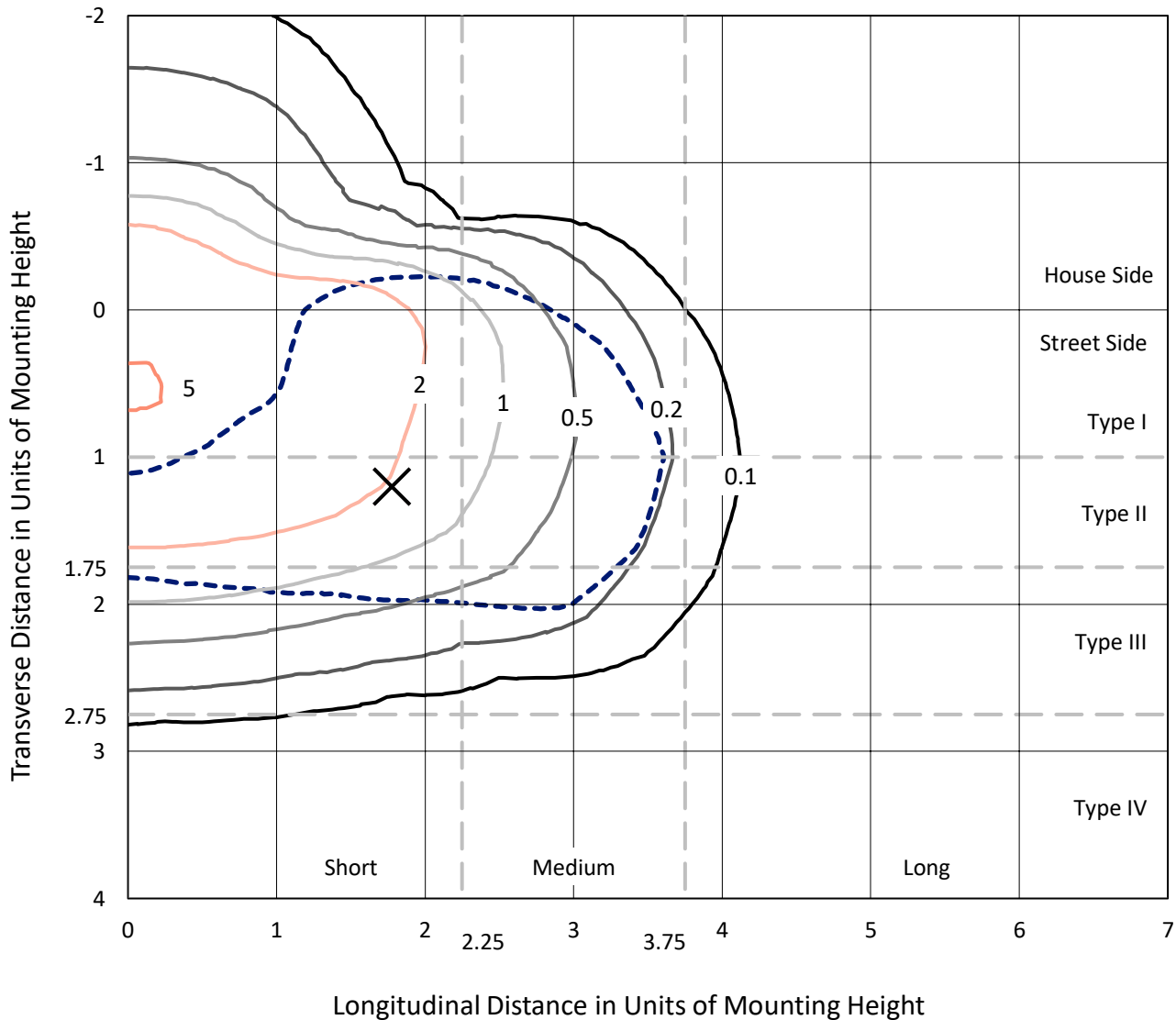
Lumens per Lamp: N/A  
Luminaire Lumens: 23262.5 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

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

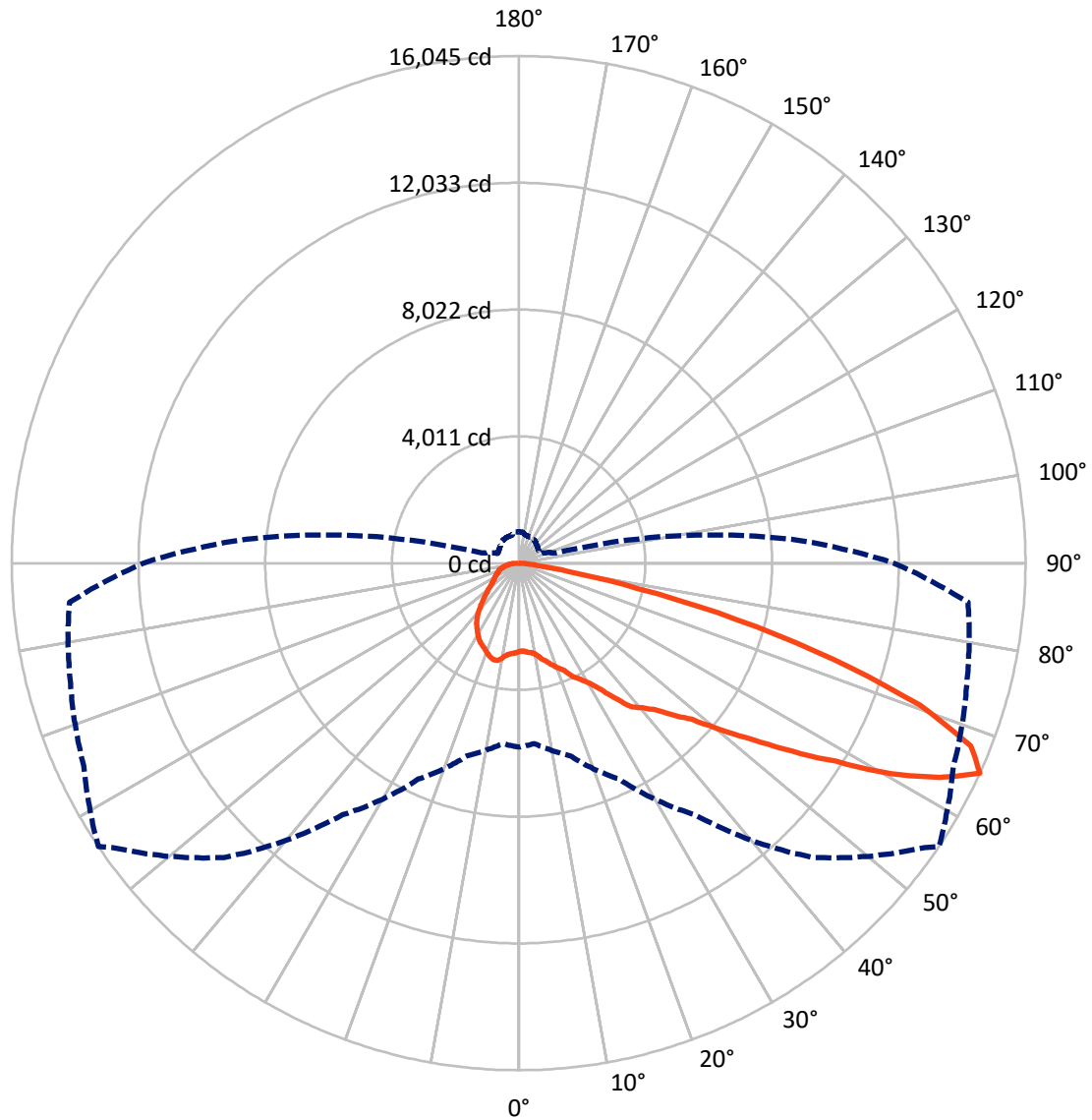
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P477397  
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### Luminous Intensity Polar Plot



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

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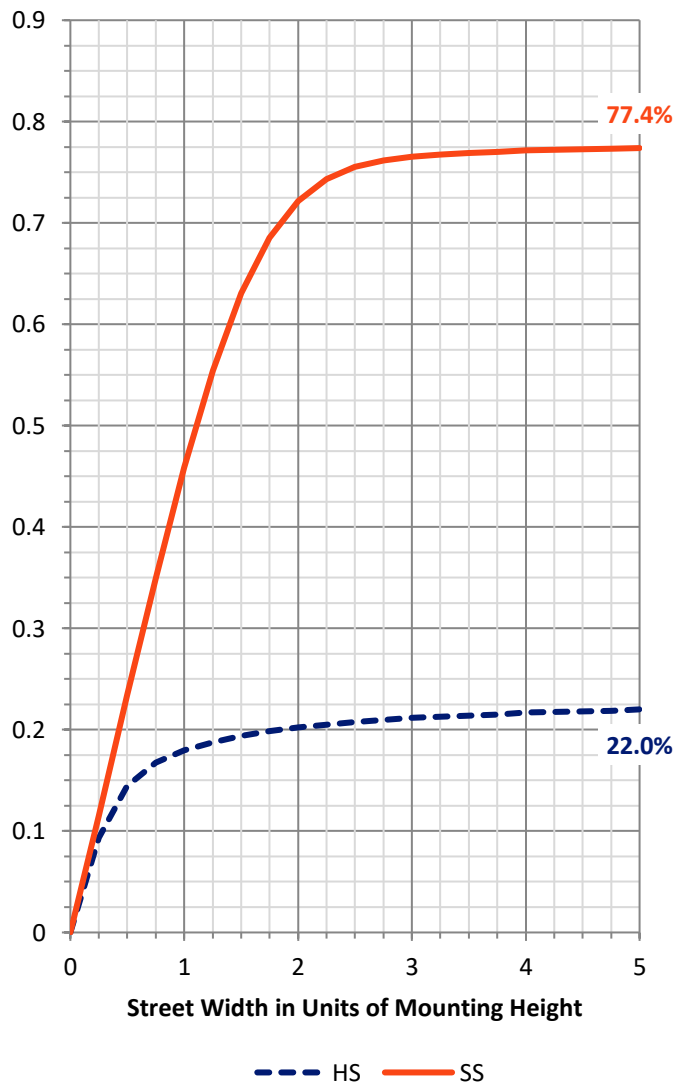
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5217.0	0.0	5217.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	18045.4	0.0	18045.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	23262.5	0.0	23262.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.2
10°-20°	898.5	3.9
20°-30°	1599.8	6.9
30°-40°	2395.6	10.3
40°-50°	3549.4	15.3
50°-60°	5469.1	23.5
60°-70°	6191.7	26.6
70°-80°	2569.6	11.0
80°-90°	312.2	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°	23262.5	100.0
0°-180°	23262.5	100.0

**Coefficient of Utilization**

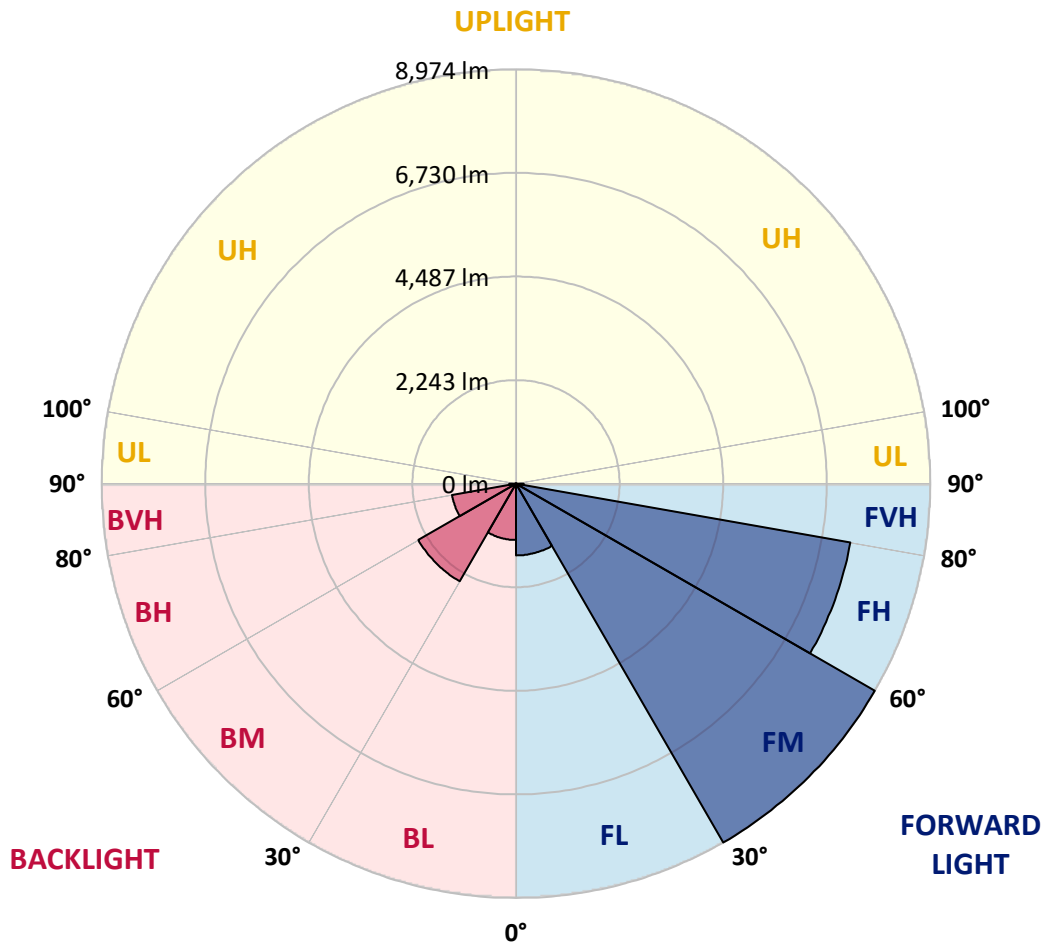


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.6	6.7			
FM (30°-60°)	8973.6	38.6			
FH (60°-80°)	7352.5	31.6			G3/7500
FVH (80°-90°)	164.7	0.7			G2/225
BL (0°-30°)	1220.3	5.2	B3/2500		
BM (30°-60°)	2440.4	10.5	B2/2500		
BH (60°-80°)	1408.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	147.5	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2
2.5°	2719.1	2733.7	2724.0	2753.2	2777.6	2777.6	2797.0	2782.4	2801.9	2828.7
5°	2809.2	2750.8	2782.4	2797.0	2789.7	2801.9	2782.4	2831.1	2799.5	2850.6
7.5°	2831.1	2853.0	2879.8	2855.4	2877.4	2865.2	2867.6	2860.3	2843.3	2884.7
10°	2991.8	2960.1	3021.0	2984.5	2979.6	2974.7	2965.0	2928.5	2969.9	2972.3
12.5°	3176.8	3147.6	3145.1	3115.9	3154.9	3084.3	3098.9	3079.4	3086.7	3096.4
15°	3310.7	3298.5	3354.5	3320.4	3269.3	3237.6	3271.7	3218.2	3244.9	3240.1
17.5°	3576.0	3573.6	3532.2	3476.2	3447.0	3400.7	3393.4	3371.5	3391.0	3381.3
20°	3761.0	3787.8	3795.1	3729.4	3617.4	3566.3	3554.1	3537.1	3559.0	3551.7
22.5°	4043.4	4002.0	4033.7	3919.2	3877.9	3756.1	3712.3	3688.0	3792.7	3765.9
25°	4223.5	4267.4	4235.7	4196.8	4104.3	3953.3	3921.7	3975.2	4016.6	3987.4
27.5°	4630.1	4586.2	4557.0	4440.2	4379.3	4221.1	4184.6	4165.1	4174.8	4191.9
30°	4939.2	4963.6	4897.8	4815.1	4661.7	4501.0	4415.8	4398.8	4364.7	4335.5
32.5°	5379.8	5343.3	5304.4	5250.8	5119.4	4907.6	4824.8	4761.5	4659.3	4523.0
35°	5591.6	5696.3	5667.1	5523.5	5423.6	5343.3	5319.0	5221.6	5136.4	4922.2
37.5°	5944.6	5988.4	5947.0	5900.8	5854.5	5769.3	5740.1	5766.9	5598.9	5245.9
40°	6173.4	6265.9	6351.1	6222.1	6212.4	6229.4	6049.3	6017.6	5671.9	5486.9
42.5°	6640.8	6679.8	6696.8	6691.9	6747.9	6747.9	6404.7	6336.5	6090.7	5939.7
45°	7259.1	7290.8	7351.6	7395.4	7332.1	7363.8	6874.5	6847.7	6628.6	6599.4
47.5°	7794.7	7870.1	8006.5	8135.5	8218.2	8111.1	7575.6	7385.7	7329.7	7505.0
50°	8262.1	8172.0	8490.9	8622.3	8985.0	9162.8	8349.7	8274.2	8184.2	8520.1
52.5°	8308.3	8430.0	8880.4	9143.3	9890.6	10219.2	9299.1	9267.4	9157.9	9544.9
55°	8639.4	8624.8	9077.6	9647.2	10535.7	11088.3	10535.7	10516.2	10277.7	10645.2
57.5°	8583.4	8731.9	9089.7	9885.7	11117.5	12020.6	11969.5	11835.6	11502.1	11801.5
60°	8393.5	8432.5	8868.2	9878.4	11455.9	12977.3	13517.7	13544.5	12862.9	13101.5
62.5°	7317.5	7407.6	7960.2	9101.9	11214.9	13637.0	15029.4	14934.5	14389.2	14116.6
65°	5820.4	5730.4	6304.9	7539.1	9715.3	13169.6	15691.6	16044.6	15187.7	14688.6
67.5°	3568.7	3546.8	4099.4	5187.5	7268.9	11207.6	15163.3	15438.4	14966.2	14566.9
70°	1837.9	1781.9	2127.6	2894.4	4569.2	8223.1	13196.4	13466.6	13917.0	13065.0
72.5°	856.9	844.7	1029.7	1424.1	2327.2	4834.5	10219.2	10414.0	11363.4	11015.3
75°	503.9	511.2	615.9	744.9	1134.4	2278.5	6782.0	7159.3	8189.0	7938.3
77.5°	377.3	377.3	438.2	518.5	662.1	881.2	3347.2	3846.2	4788.3	4306.3
80°	277.5	282.4	335.9	389.5	460.1	455.2	1329.1	1558.0	2195.8	1876.9
82.5°	216.7	224.0	260.5	289.7	323.8	275.1	545.3	586.7	903.1	718.1
85°	150.9	155.8	204.5	197.2	197.2	153.4	226.4	238.6	357.8	340.8
87.5°	36.5	41.4	99.8	109.5	82.8	46.3	70.6	80.3	129.0	148.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477397  
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2792.2	0°	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2	2792.2
2840.8	2.5°	2804.3	2814.1	2855.4	2833.5	2845.7	2794.6	2836.0	2801.9	2831.1	2816.5
2862.8	5°	2882.2	2860.3	2884.7	2867.6	2867.6	2887.1	2916.3	2894.4	2938.2	2918.7
2879.8	7.5°	2913.9	2916.3	2930.9	2933.3	2921.2	2982.0	2984.5	2977.2	3018.5	3008.8
2996.6	10°	2991.8	2994.2	3021.0	3035.6	3023.4	3045.3	3021.0	3001.5	2999.1	2989.3
3089.1	12.5°	3115.9	3140.3	3135.4	3147.6	3150.0	3057.5	3001.5	2906.6	2894.4	2906.6
3225.5	15°	3230.3	3220.6	3225.5	3249.8	3147.6	2999.1	2899.3	2818.9	2823.8	2826.2
3403.2	17.5°	3366.7	3374.0	3381.3	3269.3	3081.8	2906.6	2818.9	2818.9	2794.6	2804.3
3527.3	20°	3522.5	3493.2	3429.9	3271.7	2967.4	2799.5	2772.7	2772.7	2743.5	2724.0
3661.2	22.5°	3644.2	3585.7	3490.8	3196.3	2865.2	2758.1	2692.3	2646.1	2612.0	2573.1
3809.7	25°	3722.1	3690.4	3505.4	3118.4	2789.7	2648.5	2551.2	2480.6	2436.7	2385.6
3926.5	27.5°	3841.3	3780.5	3546.8	3028.3	2707.0	2539.0	2388.1	2278.5	2195.8	2142.2
4104.3	30°	4002.0	3914.4	3517.6	2899.3	2580.4	2349.1	2171.4	2030.2	1935.3	1891.5
4272.2	32.5°	4133.5	4019.1	3493.2	2782.4	2439.2	2156.8	1920.7	1777.0	1723.5	1667.5
4554.6	35°	4384.2	4157.8	3476.2	2716.7	2312.6	1964.5	1716.2	1592.0	1523.9	1441.1
4722.6	37.5°	4576.5	4398.8	3434.8	2580.4	2149.5	1777.0	1560.4	1448.4	1346.2	1258.5
5112.1	40°	4878.4	4734.7	3437.2	2388.1	1957.2	1616.4	1438.7	1321.8	1192.8	1117.3
5689.0	42.5°	5445.6	5065.8	3451.9	2234.7	1740.5	1484.9	1329.1	1190.4	1061.4	998.1
6346.3	45°	6141.8	5521.0	3361.8	2095.9	1519.0	1360.8	1197.7	1058.9	976.2	929.9
7239.6	47.5°	6942.7	5966.5	3240.1	1835.5	1334.0	1229.3	1076.0	995.6	934.8	908.0
8391.1	50°	7838.5	6604.3	3206.0	1596.9	1190.4	1117.3	1017.5	956.7	915.3	883.7
9688.6	52.5°	8992.4	7346.8	3137.8	1351.0	1066.2	1027.3	995.6	954.3	917.7	891.0
10898.4	55°	10095.1	8169.6	3064.8	1149.0	978.6	983.5	1000.5	964.0	932.3	891.0
12254.3	57.5°	11336.6	9009.4	2794.6	1000.5	912.9	961.6	995.6	954.3	922.6	891.0
13641.9	60°	12103.4	9481.6	2266.3	871.5	854.4	920.2	966.4	922.6	888.5	900.7
14279.7	62.5°	12415.0	9233.3	1708.9	791.2	813.1	864.2	920.2	903.1	878.8	925.0
14272.4	65°	11884.3	8661.3	1222.0	723.0	757.1	808.2	878.8	898.3	905.6	995.6
13108.8	67.5°	10574.7	7541.5	898.3	667.0	698.6	774.1	908.0	939.6	934.8	1046.8
11000.7	70°	8461.7	5898.3	701.1	620.7	676.7	800.9	949.4	949.4	915.3	1046.8
8391.1	72.5°	6156.4	4157.8	603.7	567.2	620.7	735.2	944.5	942.1	898.3	956.7
5343.3	75°	3726.9	2419.7	533.1	513.6	533.1	630.5	903.1	888.5	827.7	822.8
2570.6	77.5°	1857.4	1217.2	435.7	455.2	465.0	528.2	793.6	815.5	732.7	713.3
1015.1	80°	783.8	530.7	362.7	391.9	391.9	445.5	659.7	674.3	608.6	572.1
401.7	82.5°	357.8	304.3	309.2	340.8	318.9	345.7	523.4	540.4	494.2	433.3
170.4	85°	150.9	172.8	236.1	267.8	236.1	224.0	360.3	379.8	321.3	267.8
73.0	87.5°	68.2	94.9	148.5	194.7	119.3	104.7	192.3	199.6	160.7	119.3
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>
2792.2
2789.7
2892.0
2994.2
2989.3
2911.4
2860.3
2806.8
2694.8
2551.2
2395.4
2166.5
1915.8
1665.1
1433.8
1261.0
1124.7
1002.9
939.6
903.1
888.5
888.5
888.5
888.5
891.0
912.9
995.6
1054.1
1024.8
922.6
813.1
701.1
559.9
423.6
270.2
112.0
0.0

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