

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: P477320

Luminaire Tested: **IFLD-M-SA4C-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477320
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

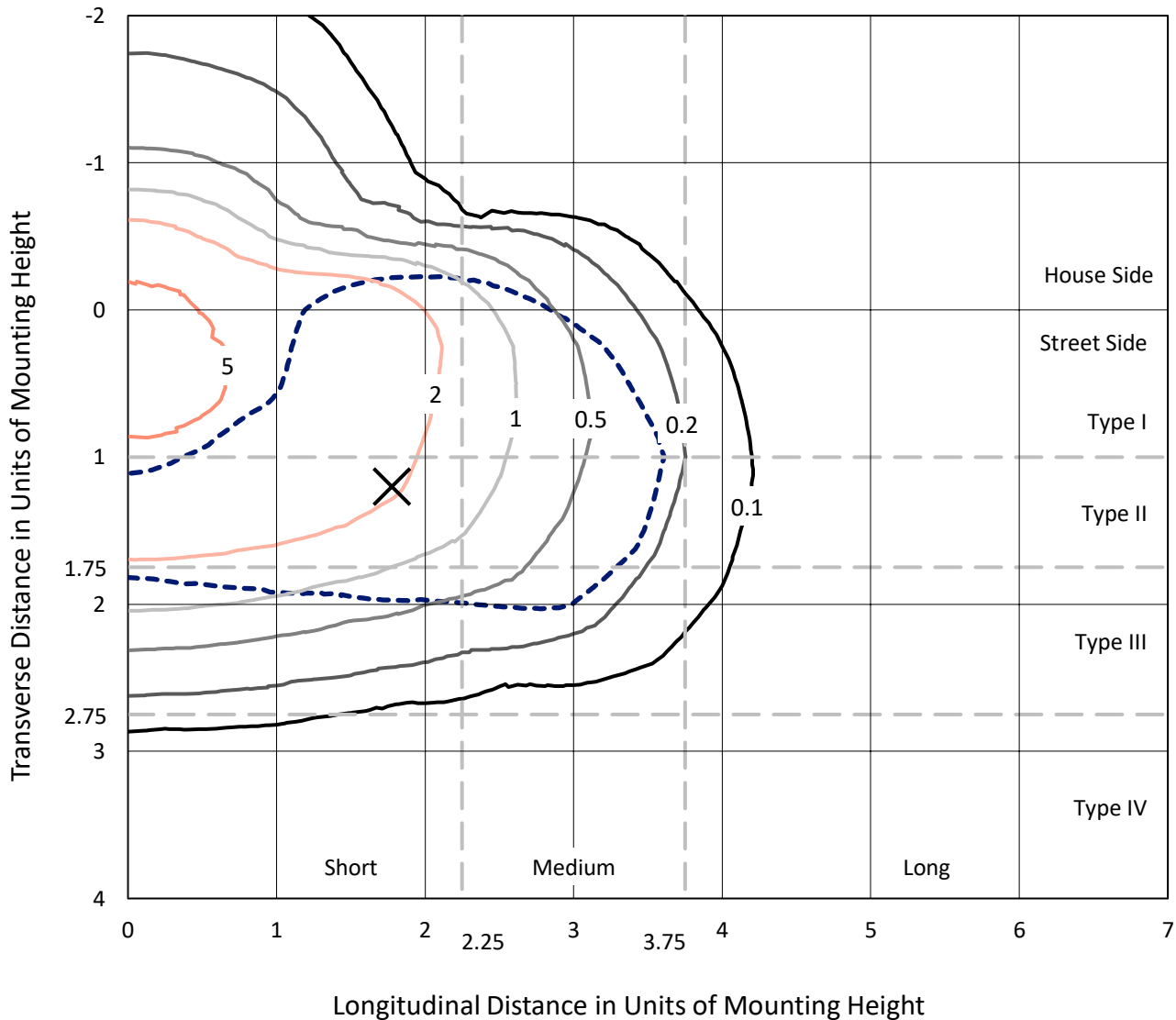
Lumens per Lamp: N/A
Luminaire Lumens: 26369.4 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): 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

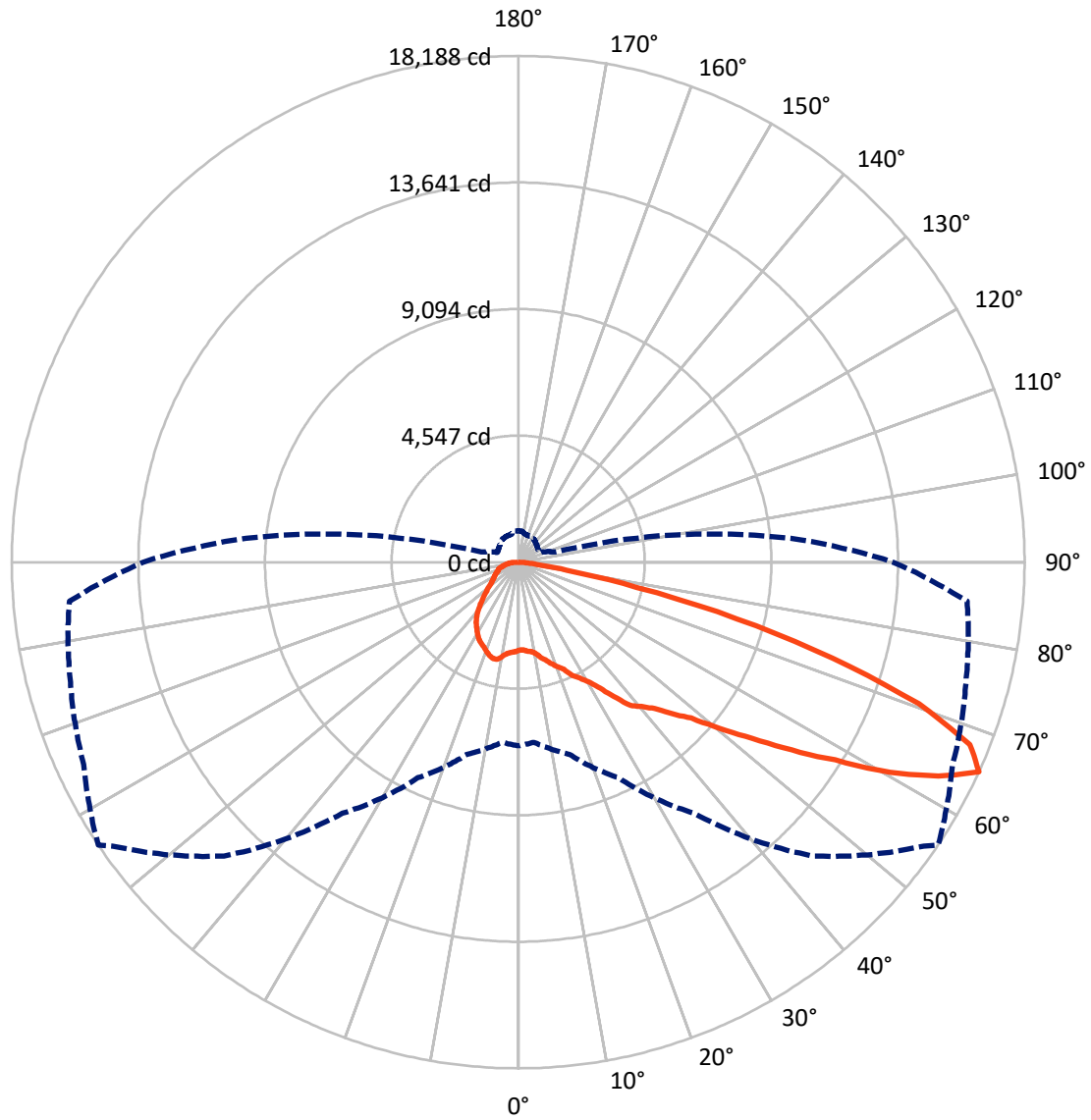
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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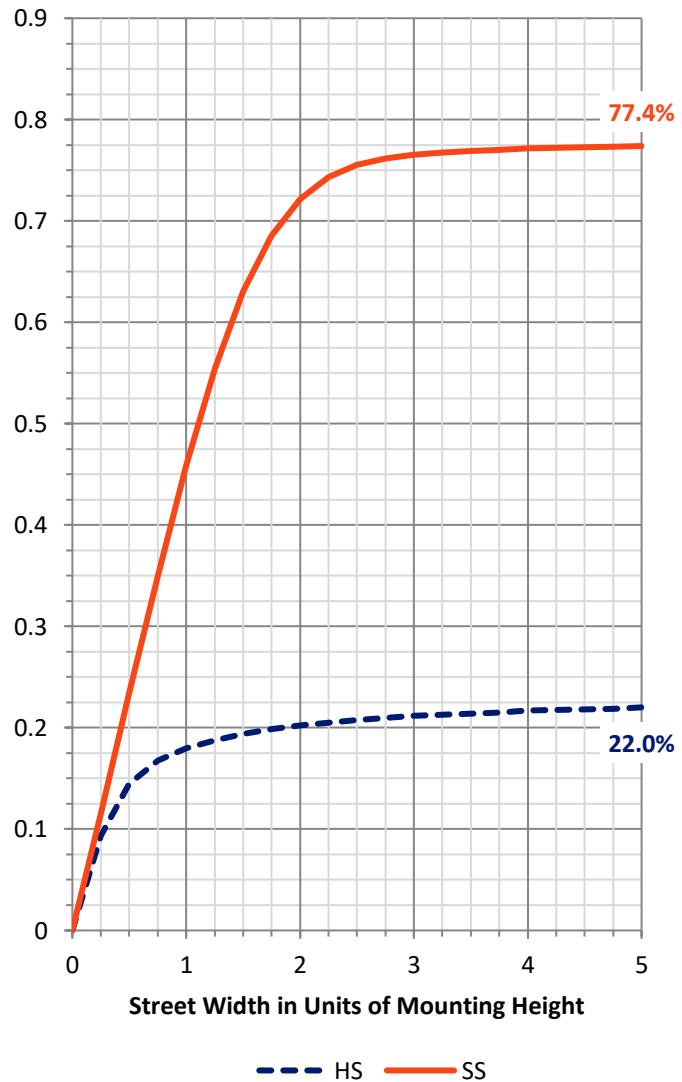
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5913.8	0.0	5913.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	20455.6	0.0	20455.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	26369.4	0.0	26369.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	1.2
10°-20°	1018.5	3.9
20°-30°	1813.4	6.9
30°-40°	2715.6	10.3
40°-50°	4023.4	15.3
50°-60°	6199.5	23.5
60°-70°	7018.7	26.6
70°-80°	2912.8	11.0
80°-90°	353.9	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°	26369.4	100.0
0°-180°	26369.4	100.0

Coefficient of Utilization

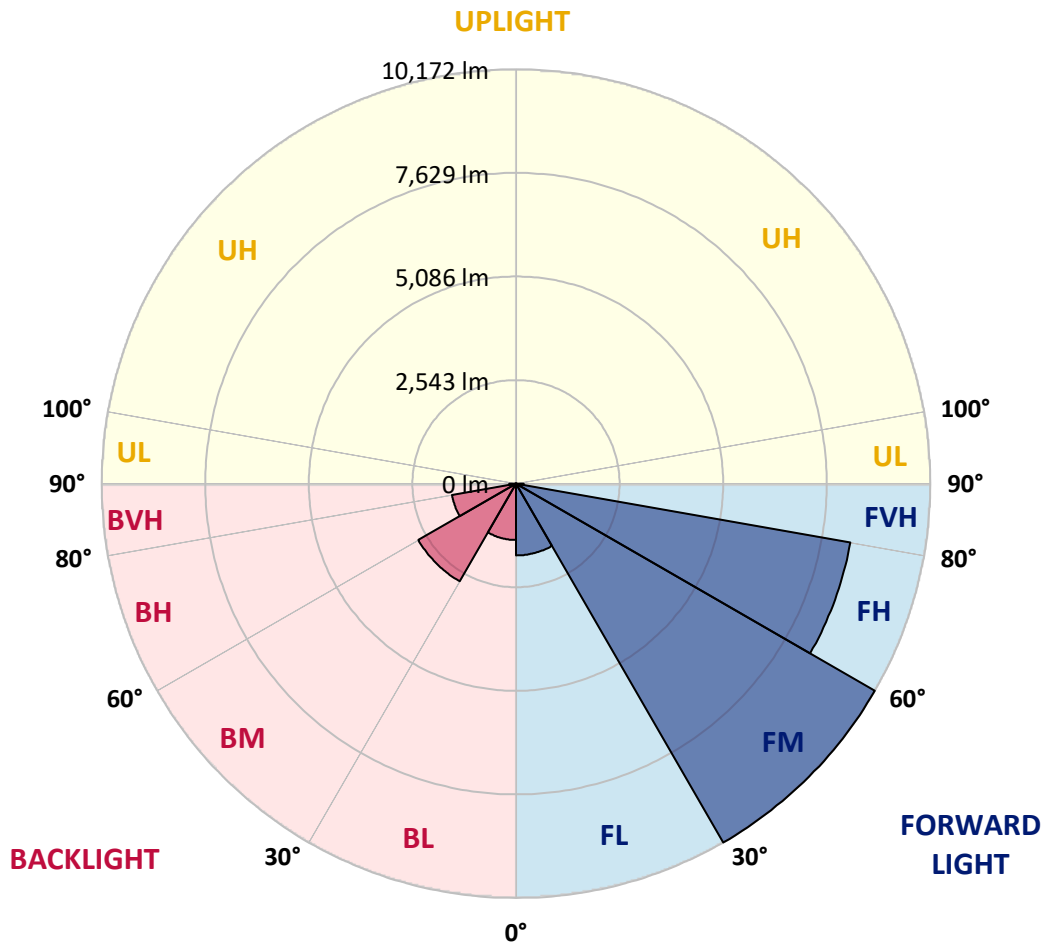


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.2	6.7			
FM (30°-60°)	10172.2	38.6			
FH (60°-80°)	8334.5	31.6			G4/12000
FVH (80°-90°)	186.7	0.7			G2/225
BL (0°-30°)	1383.3	5.2	B3/2500		
BM (30°-60°)	2766.4	10.5	B3/5000		
BH (60°-80°)	1596.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	167.2	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°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
2.5°	3082.3	3098.9	3087.8	3120.9	3148.5	3148.5	3170.6	3154.0	3176.1	3206.5
5°	3184.4	3118.2	3154.0	3170.6	3162.3	3176.1	3154.0	3209.2	3173.4	3231.3
7.5°	3209.2	3234.1	3264.4	3236.8	3261.7	3247.9	3250.6	3242.3	3223.0	3269.9
10°	3391.4	3355.5	3424.5	3383.1	3377.6	3372.0	3361.0	3319.6	3366.5	3369.3
12.5°	3601.1	3568.0	3565.2	3532.1	3576.2	3496.2	3512.8	3490.7	3499.0	3510.0
15°	3752.8	3739.0	3802.5	3763.9	3705.9	3670.1	3708.7	3648.0	3678.3	3672.8
17.5°	4053.6	4050.9	4003.9	3940.5	3907.4	3854.9	3846.7	3821.8	3843.9	3832.9
20°	4263.3	4293.7	4302.0	4227.5	4100.5	4042.6	4028.8	4009.5	4034.3	4026.0
22.5°	4583.4	4536.5	4572.4	4442.7	4395.8	4257.8	4208.1	4180.6	4299.2	4268.9
25°	4787.6	4837.3	4801.4	4757.3	4652.4	4481.3	4445.5	4506.2	4553.1	4520.0
27.5°	5248.5	5198.8	5165.7	5033.2	4964.2	4784.9	4743.5	4721.4	4732.4	4751.8
30°	5598.9	5626.5	5552.0	5458.2	5284.3	5102.2	5005.6	4986.3	4947.7	4914.6
32.5°	6098.4	6057.0	6012.8	5952.1	5803.1	5563.0	5469.2	5397.5	5281.6	5127.0
35°	6338.4	6457.1	6424.0	6261.2	6148.0	6057.0	6029.4	5919.0	5822.4	5579.6
37.5°	6738.6	6788.2	6741.3	6688.9	6636.5	6539.9	6506.8	6537.1	6346.7	5946.6
40°	6997.9	7102.8	7199.4	7053.1	7042.1	7061.4	6857.2	6821.3	6429.5	6219.8
42.5°	7527.8	7571.9	7591.2	7585.7	7649.2	7649.2	7260.1	7182.8	6904.1	6733.0
45°	8228.7	8264.5	8333.5	8383.2	8311.4	8347.3	7792.7	7762.3	7514.0	7480.8
47.5°	8835.7	8921.3	9075.8	9222.0	9315.9	9194.5	8587.4	8372.1	8308.7	8507.4
50°	9365.5	9263.4	9624.9	9773.9	10185.1	10386.5	9464.9	9379.3	9277.2	9658.0
52.5°	9418.0	9555.9	10066.4	10364.5	11211.6	11584.1	10541.1	10505.2	10381.0	10819.8
55°	9793.3	9776.7	10290.0	10935.7	11942.9	12569.3	11942.9	11920.8	11650.4	12067.0
57.5°	9729.8	9898.1	10303.8	11206.1	12602.4	13626.1	13568.2	13416.4	13038.4	13377.8
60°	9514.6	9558.7	10052.6	11197.8	12985.9	14710.6	15323.2	15353.5	14580.9	14851.3
62.5°	8294.9	8397.0	9023.4	10317.5	12712.7	15458.4	17036.8	16929.2	16311.1	16002.0
65°	6597.8	6495.7	7147.0	8546.0	11012.9	14928.6	17787.4	18187.5	17216.1	16650.5
67.5°	4045.3	4020.5	4646.9	5880.4	8239.7	12704.5	17188.6	17500.4	16965.0	16512.5
70°	2083.4	2019.9	2411.8	3281.0	5179.5	9321.4	14958.9	15265.2	15775.7	14809.9
72.5°	971.3	957.5	1167.2	1614.3	2638.0	5480.2	11584.1	11804.9	12881.1	12486.5
75°	571.2	579.5	698.1	844.4	1285.9	2582.8	7687.8	8115.5	9282.8	8998.5
77.5°	427.7	427.7	496.7	587.8	750.6	998.9	3794.2	4359.9	5427.8	4881.5
80°	314.6	320.1	380.8	441.5	521.5	516.0	1506.7	1766.0	2489.0	2127.5
82.5°	245.6	253.9	295.3	328.4	367.0	311.8	618.1	665.0	1023.8	814.0
85°	171.1	176.6	231.8	223.5	223.5	173.8	256.6	270.4	405.6	386.3
87.5°	41.4	46.9	113.1	124.2	93.8	52.4	80.0	91.1	146.3	168.3
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°
3165.1	0°	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1	3165.1
3220.3	2.5°	3178.9	3189.9	3236.8	3212.0	3225.8	3167.8	3214.7	3176.1	3209.2	3192.7
3245.1	5°	3267.2	3242.3	3269.9	3250.6	3250.6	3272.7	3305.8	3281.0	3330.6	3308.6
3264.4	7.5°	3303.1	3305.8	3322.4	3325.1	3311.3	3380.3	3383.1	3374.8	3421.7	3410.7
3396.9	10°	3391.4	3394.1	3424.5	3441.0	3427.2	3452.1	3424.5	3402.4	3399.6	3388.6
3501.7	12.5°	3532.1	3559.7	3554.2	3568.0	3570.7	3465.9	3402.4	3294.8	3281.0	3294.8
3656.3	15°	3661.8	3650.7	3656.3	3683.9	3568.0	3399.6	3286.5	3195.4	3201.0	3203.7
3857.7	17.5°	3816.3	3824.6	3832.9	3705.9	3493.5	3294.8	3195.4	3195.4	3167.8	3178.9
3998.4	20°	3992.9	3959.8	3888.1	3708.7	3363.8	3173.4	3143.0	3143.0	3109.9	3087.8
4150.2	22.5°	4130.9	4064.7	3957.0	3623.1	3247.9	3126.4	3051.9	2999.5	2960.9	2916.7
4318.5	25°	4219.2	4183.3	3973.6	3534.8	3162.3	3002.3	2891.9	2811.9	2762.2	2704.3
4451.0	27.5°	4354.4	4285.4	4020.5	3432.7	3068.5	2878.1	2707.0	2582.8	2489.0	2428.3
4652.4	30°	4536.5	4437.2	3987.4	3286.5	2925.0	2662.9	2461.4	2301.4	2193.8	2144.1
4842.8	32.5°	4685.5	4555.8	3959.8	3154.0	2765.0	2444.9	2177.2	2014.4	1953.7	1890.2
5162.9	35°	4969.8	4713.1	3940.5	3079.5	2621.5	2226.9	1945.4	1804.7	1727.4	1633.6
5353.3	37.5°	5187.7	4986.3	3893.6	2925.0	2436.6	2014.4	1768.8	1641.9	1526.0	1426.6
5794.8	40°	5529.9	5367.1	3896.3	2707.0	2218.6	1832.3	1630.8	1498.4	1352.1	1266.6
6448.8	42.5°	6172.9	5742.4	3912.9	2533.2	1973.0	1683.3	1506.7	1349.4	1203.1	1131.4
7193.9	45°	6962.1	6258.4	3810.8	2375.9	1721.9	1542.5	1357.6	1200.4	1106.5	1054.1
8206.6	47.5°	7869.9	6763.4	3672.8	2080.6	1512.2	1393.5	1219.7	1128.6	1059.6	1029.3
9511.8	50°	8885.4	7486.4	3634.2	1810.2	1349.4	1266.6	1153.4	1084.5	1037.5	1001.7
10982.6	52.5°	10193.4	8328.0	3556.9	1531.5	1208.6	1164.5	1128.6	1081.7	1040.3	1010.0
12354.0	55°	11443.4	9260.7	3474.1	1302.5	1109.3	1114.8	1134.1	1092.7	1056.9	1010.0
13891.0	57.5°	12850.7	10212.7	3167.8	1134.1	1034.8	1090.0	1128.6	1081.7	1045.8	1010.0
15463.9	60°	13719.9	10748.0	2569.0	987.9	968.6	1043.1	1095.5	1045.8	1007.2	1021.0
16186.9	62.5°	14073.1	10466.6	1937.1	896.8	921.7	979.6	1043.1	1023.8	996.2	1048.6
16178.6	65°	13471.6	9818.1	1385.2	819.6	858.2	916.1	996.2	1018.2	1026.5	1128.6
14859.6	67.5°	11987.0	8548.7	1018.2	756.1	792.0	877.5	1029.3	1065.1	1059.6	1186.6
12469.9	70°	9591.8	6686.1	794.7	703.7	767.1	907.9	1076.2	1076.2	1037.5	1186.6
9511.8	72.5°	6978.6	4713.1	684.3	642.9	703.7	833.4	1070.7	1067.9	1018.2	1084.5
6057.0	75°	4224.7	2742.9	604.3	582.2	604.3	714.7	1023.8	1007.2	938.2	932.7
2914.0	77.5°	2105.5	1379.7	493.9	516.0	527.1	598.8	899.6	924.4	830.6	808.5
1150.7	80°	888.5	601.6	411.2	444.3	444.3	505.0	747.8	764.4	689.9	648.5
455.3	82.5°	405.6	344.9	350.4	386.3	361.5	391.8	593.3	612.6	560.2	491.2
193.2	85°	171.1	195.9	267.7	303.5	267.7	253.9	408.4	430.5	364.2	303.5
82.8	87.5°	77.3	107.6	168.3	220.8	135.2	118.7	218.0	226.3	182.1	135.2
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>
3165.1
3162.3
3278.2
3394.1
3388.6
3300.3
3242.3
3181.6
3054.7
2891.9
2715.3
2455.9
2171.7
1887.5
1625.3
1429.4
1274.9
1136.9
1065.1
1023.8
1007.2
1007.2
1007.2
1007.2
1010.0
1034.8
1128.6
1194.8
1161.7
1045.8
921.7
794.7
634.7
480.1
306.3
126.9
0.0

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