

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: P477556

Luminaire Tested: **IFLD-M-SA4E-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477556
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

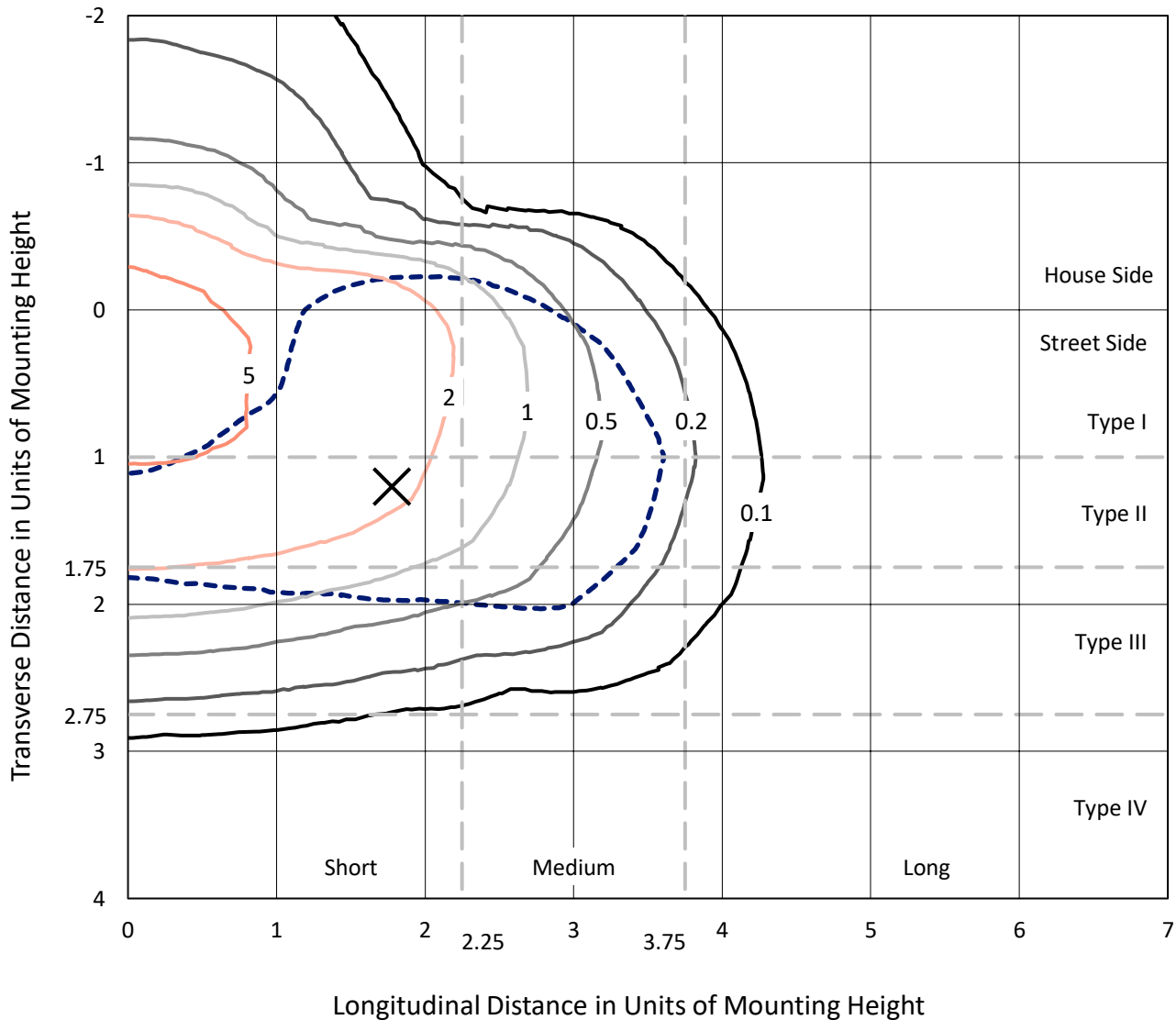
Lumens per Lamp: N/A
Luminaire Lumens: 29301 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

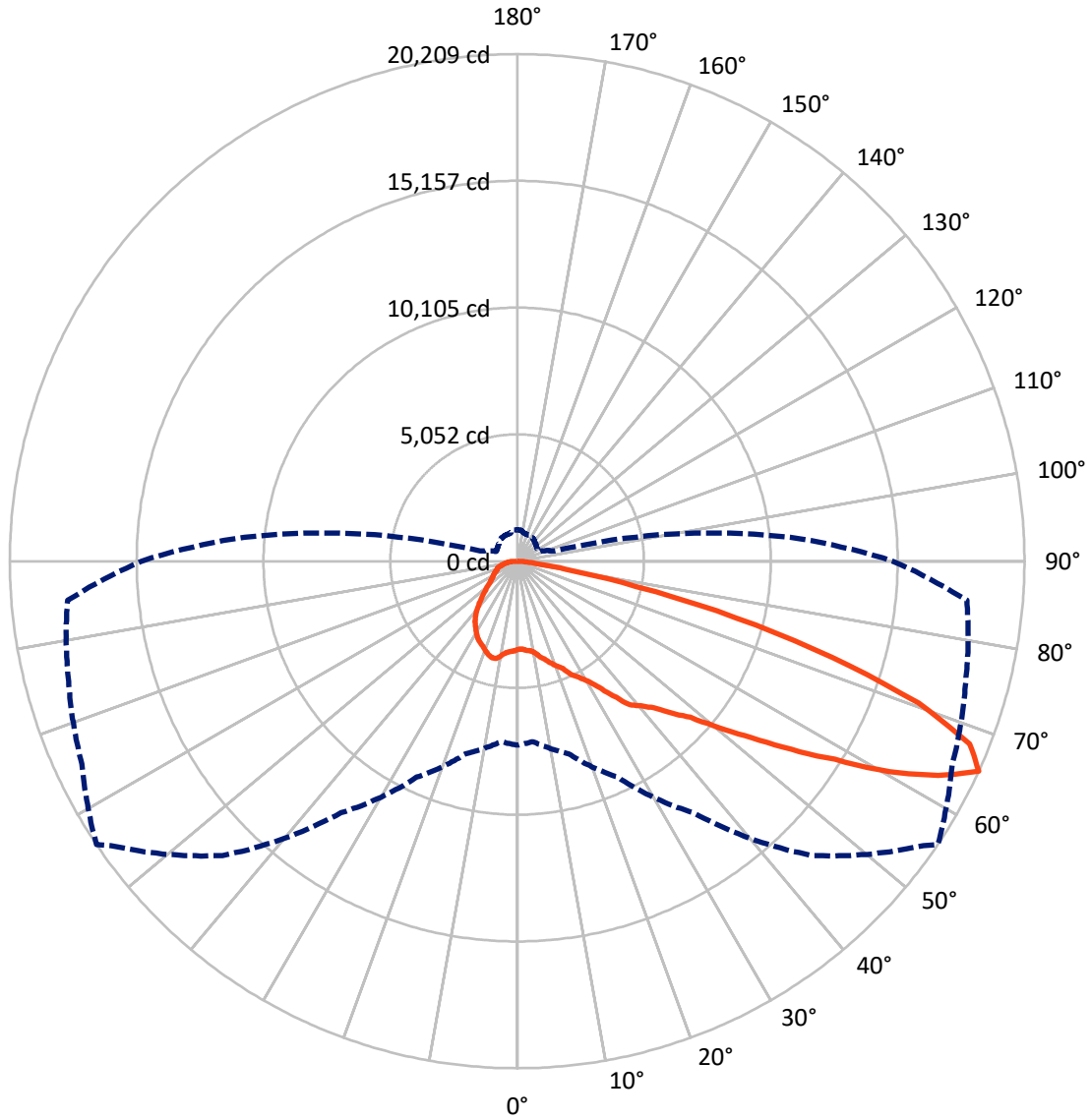
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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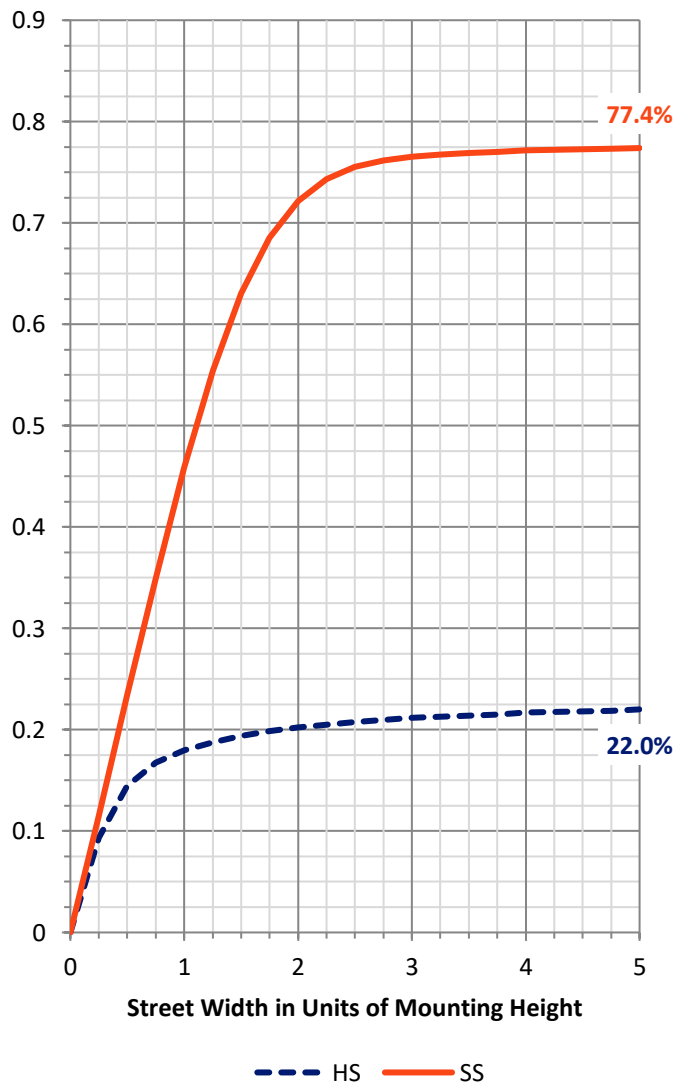
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6571.3	0.0	6571.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22729.7	0.0	22729.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	29301.0	0.0	29301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.2
10°-20°	1131.7	3.9
20°-30°	2015.0	6.9
30°-40°	3017.4	10.3
40°-50°	4470.7	15.3
50°-60°	6888.8	23.5
60°-70°	7798.9	26.6
70°-80°	3236.6	11.0
80°-90°	393.2	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°	29301.0	100.0
0°-180°	29301.0	100.0

Coefficient of Utilization

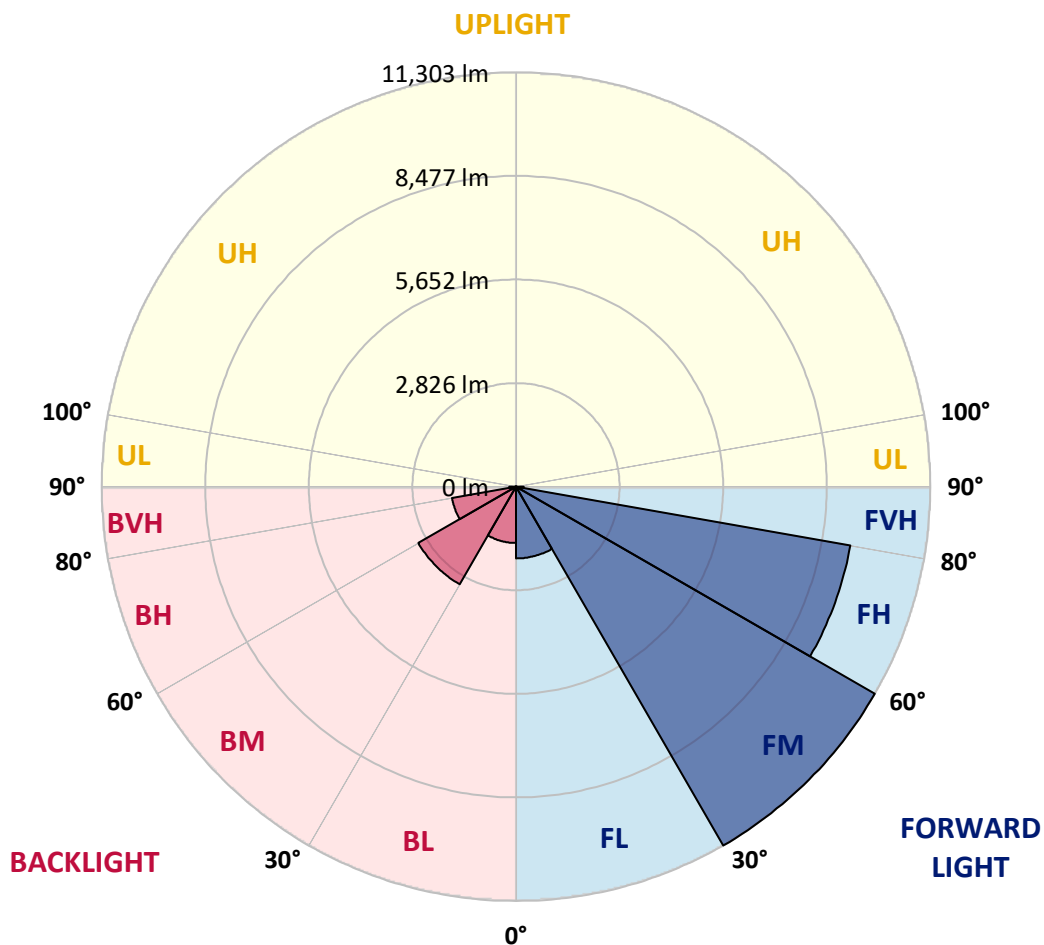


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.2	6.7			
FM (30°-60°)	11303.0	38.6			
FH (60°-80°)	9261.1	31.6			G4/12000
FVH (80°-90°)	207.4	0.7			G2/225
BL (0°-30°)	1537.1	5.2	B3/2500		
BM (30°-60°)	3073.9	10.5	B3/5000		
BH (60°-80°)	1774.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	185.8	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°	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0
2.5°	3425.0	3443.4	3431.1	3467.9	3498.6	3498.6	3523.1	3504.7	3529.2	3562.9
5°	3538.4	3464.8	3504.7	3523.1	3513.9	3529.2	3504.7	3566.0	3526.2	3590.5
7.5°	3566.0	3593.6	3627.3	3596.7	3624.3	3608.9	3612.0	3602.8	3581.3	3633.5
10°	3768.4	3728.5	3805.2	3759.2	3753.1	3746.9	3734.7	3688.7	3740.8	3743.9
12.5°	4001.4	3964.6	3961.6	3924.8	3973.8	3884.9	3903.3	3878.8	3888.0	3900.2
15°	4170.1	4154.7	4225.2	4182.3	4117.9	4078.1	4121.0	4053.5	4087.3	4081.1
17.5°	4504.3	4501.2	4449.1	4378.6	4341.8	4283.5	4274.3	4246.7	4271.2	4259.0
20°	4737.3	4771.0	4780.2	4697.4	4556.4	4492.0	4476.7	4455.2	4482.8	4473.6
22.5°	5093.0	5040.9	5080.7	4936.6	4884.5	4731.2	4676.0	4645.3	4777.2	4743.4
25°	5319.9	5375.1	5335.2	5286.2	5169.6	4979.5	4939.7	5007.1	5059.3	5022.5
27.5°	5831.9	5776.8	5740.0	5592.8	5516.1	5316.8	5270.8	5246.3	5258.6	5280.0
30°	6221.4	6252.0	6169.2	6065.0	5871.8	5669.4	5562.1	5540.7	5497.7	5460.9
32.5°	6776.3	6730.3	6681.3	6613.8	6448.3	6181.5	6077.2	5997.5	5868.7	5697.0
35°	7043.1	7174.9	7138.2	6957.2	6831.5	6730.3	6699.7	6577.0	6469.7	6199.9
37.5°	7487.7	7542.9	7490.8	7432.5	7374.3	7266.9	7230.1	7263.9	7052.3	6607.7
40°	7775.9	7892.4	7999.8	7837.3	7825.0	7846.5	7619.6	7579.7	7144.3	6911.3
42.5°	8364.6	8413.7	8435.2	8429.0	8499.6	8499.6	8067.2	7981.4	7671.7	7481.6
45°	9143.5	9183.3	9260.0	9315.2	9235.4	9275.3	8659.0	8625.3	8349.3	8312.5
47.5°	9818.0	9913.1	10084.8	10247.3	10351.6	10216.6	9542.1	9302.9	9232.4	9453.1
50°	10406.7	10293.3	10695.0	10860.5	11317.4	11541.2	10517.1	10422.1	10308.6	10731.8
52.5°	10465.0	10618.3	11185.6	11516.7	12458.0	12872.0	11713.0	11673.1	11535.1	12022.6
55°	10882.0	10863.6	11433.9	12151.4	13270.6	13966.6	13270.6	13246.1	12945.6	13408.6
57.5°	10811.5	10998.5	11449.3	12451.9	14003.4	15141.0	15076.6	14908.0	14487.9	14865.0
60°	10572.3	10621.4	11170.2	12442.7	14429.6	16346.0	17026.7	17060.4	16201.9	16502.4
62.5°	9217.1	9330.5	10026.5	11464.6	14126.1	17177.0	18930.8	18811.2	18124.4	17781.0
65°	7331.3	7217.9	7941.5	9496.1	12237.3	16588.2	19764.8	20209.4	19130.1	18501.6
67.5°	4495.1	4467.5	5163.5	6534.1	9155.7	14116.9	19099.5	19446.0	18851.1	18348.2
70°	2315.0	2244.5	2679.9	3645.7	5755.3	10357.7	16622.0	16962.3	17529.6	16456.4
72.5°	1079.3	1064.0	1297.0	1793.7	2931.3	6089.5	12872.0	13117.3	14313.1	13874.6
75°	634.7	643.9	775.8	938.3	1428.9	2870.0	8542.5	9017.7	10314.8	9998.9
77.5°	475.3	475.3	551.9	653.1	834.0	1110.0	4216.0	4844.6	6031.3	5424.1
80°	349.5	355.7	423.1	490.6	579.5	573.4	1674.2	1962.4	2765.7	2364.1
82.5°	272.9	282.1	328.1	364.9	407.8	346.5	686.8	739.0	1137.6	904.5
85°	190.1	196.2	257.6	248.4	248.4	193.2	285.2	300.5	450.7	429.3
87.5°	46.0	52.1	125.7	138.0	104.3	58.3	88.9	101.2	162.5	187.0
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°
3517.0	0°	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0	3517.0
3578.3	2.5°	3532.3	3544.5	3596.7	3569.1	3584.4	3520.0	3572.1	3529.2	3566.0	3547.6
3605.9	5°	3630.4	3602.8	3633.5	3612.0	3612.0	3636.5	3673.3	3645.7	3700.9	3676.4
3627.3	7.5°	3670.3	3673.3	3691.7	3694.8	3679.5	3756.1	3759.2	3750.0	3802.1	3789.8
3774.5	10°	3768.4	3771.4	3805.2	3823.6	3808.2	3835.8	3805.2	3780.6	3777.6	3765.3
3891.0	12.5°	3924.8	3955.4	3949.3	3964.6	3967.7	3851.2	3780.6	3661.1	3645.7	3661.1
4062.7	15°	4068.9	4056.6	4062.7	4093.4	3964.6	3777.6	3651.9	3550.7	3556.8	3559.9
4286.6	17.5°	4240.6	4249.8	4259.0	4117.9	3881.8	3661.1	3550.7	3550.7	3520.0	3532.3
4442.9	20°	4436.8	4400.0	4320.3	4121.0	3737.7	3526.2	3492.4	3492.4	3455.6	3431.1
4611.6	22.5°	4590.1	4516.5	4397.0	4025.9	3608.9	3474.0	3391.2	3333.0	3290.1	3241.0
4798.6	25°	4688.2	4648.4	4415.4	3927.8	3513.9	3336.0	3213.4	3124.5	3069.3	3004.9
4945.8	27.5°	4838.5	4761.8	4467.5	3814.4	3409.6	3198.1	3008.0	2870.0	2765.7	2698.3
5169.6	30°	5040.9	4930.5	4430.7	3651.9	3250.2	2958.9	2735.1	2557.2	2437.6	2382.5
5381.2	32.5°	5206.4	5062.3	4400.0	3504.7	3072.4	2716.7	2419.2	2238.3	2170.9	2100.4
5736.9	35°	5522.3	5237.1	4378.6	3421.9	2912.9	2474.4	2161.7	2005.3	1919.5	1815.2
5948.5	37.5°	5764.5	5540.7	4326.4	3250.2	2707.5	2238.3	1965.4	1824.4	1695.6	1585.2
6439.1	40°	6144.7	5963.8	4329.5	3008.0	2465.2	2036.0	1812.1	1665.0	1502.4	1407.4
7165.8	42.5°	6859.1	6380.8	4347.9	2814.8	2192.3	1870.4	1674.2	1499.4	1336.9	1257.1
7993.6	45°	7736.1	6954.2	4234.4	2640.0	1913.3	1714.0	1508.6	1333.8	1229.6	1171.3
9118.9	47.5°	8744.9	7515.3	4081.1	2311.9	1680.3	1548.4	1355.3	1254.1	1177.4	1143.7
10569.3	50°	9873.2	8318.6	4038.2	2011.4	1499.4	1407.4	1281.7	1205.0	1152.9	1113.0
12203.5	52.5°	11326.6	9253.8	3952.4	1701.8	1343.0	1293.9	1254.1	1202.0	1156.0	1122.2
13727.5	55°	12715.6	10290.2	3860.4	1447.3	1232.6	1238.8	1260.2	1214.2	1174.4	1122.2
15435.3	57.5°	14279.4	11348.1	3520.0	1260.2	1149.8	1211.2	1254.1	1202.0	1162.1	1122.2
17183.1	60°	15245.2	11942.9	2854.6	1097.7	1076.2	1159.0	1217.3	1162.1	1119.2	1134.5
17986.4	62.5°	15637.7	11630.2	2152.5	996.5	1024.1	1088.5	1159.0	1137.6	1106.9	1165.2
17977.2	65°	14969.3	10909.6	1539.2	910.7	953.6	1018.0	1106.9	1131.4	1140.6	1254.1
16511.6	67.5°	13319.7	9499.1	1131.4	840.1	880.0	975.1	1143.7	1183.6	1177.4	1318.5
13856.2	70°	10658.2	7429.4	883.1	781.9	852.4	1008.8	1195.8	1195.8	1152.9	1318.5
10569.3	72.5°	7754.5	5237.1	760.4	714.4	781.9	926.0	1189.7	1186.6	1131.4	1205.0
6730.3	75°	4694.4	3047.8	671.5	647.0	671.5	794.2	1137.6	1119.2	1042.5	1036.4
3237.9	77.5°	2339.5	1533.1	548.9	573.4	585.6	665.4	999.6	1027.2	922.9	898.4
1278.6	80°	987.3	668.4	456.9	493.7	493.7	561.1	830.9	849.3	766.6	720.6
505.9	82.5°	450.7	383.3	389.4	429.3	401.7	435.4	659.2	680.7	622.4	545.8
214.6	85°	190.1	217.7	297.4	337.3	297.4	282.1	453.8	478.3	404.7	337.3
92.0	87.5°	85.9	119.6	187.0	245.3	150.2	131.8	242.2	251.4	202.4	150.2
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>
3517.0
3513.9
3642.7
3771.4
3765.3
3667.2
3602.8
3535.3
3394.3
3213.4
3017.2
2728.9
2413.1
2097.3
1806.0
1588.3
1416.6
1263.3
1183.6
1137.6
1119.2
1119.2
1119.2
1119.2
1122.2
1149.8
1254.1
1327.7
1290.9
1162.1
1024.1
883.1
705.2
533.5
340.4
141.0
0.0

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