

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: P477517

Luminaire Tested: **IFLD-M-SA4E-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

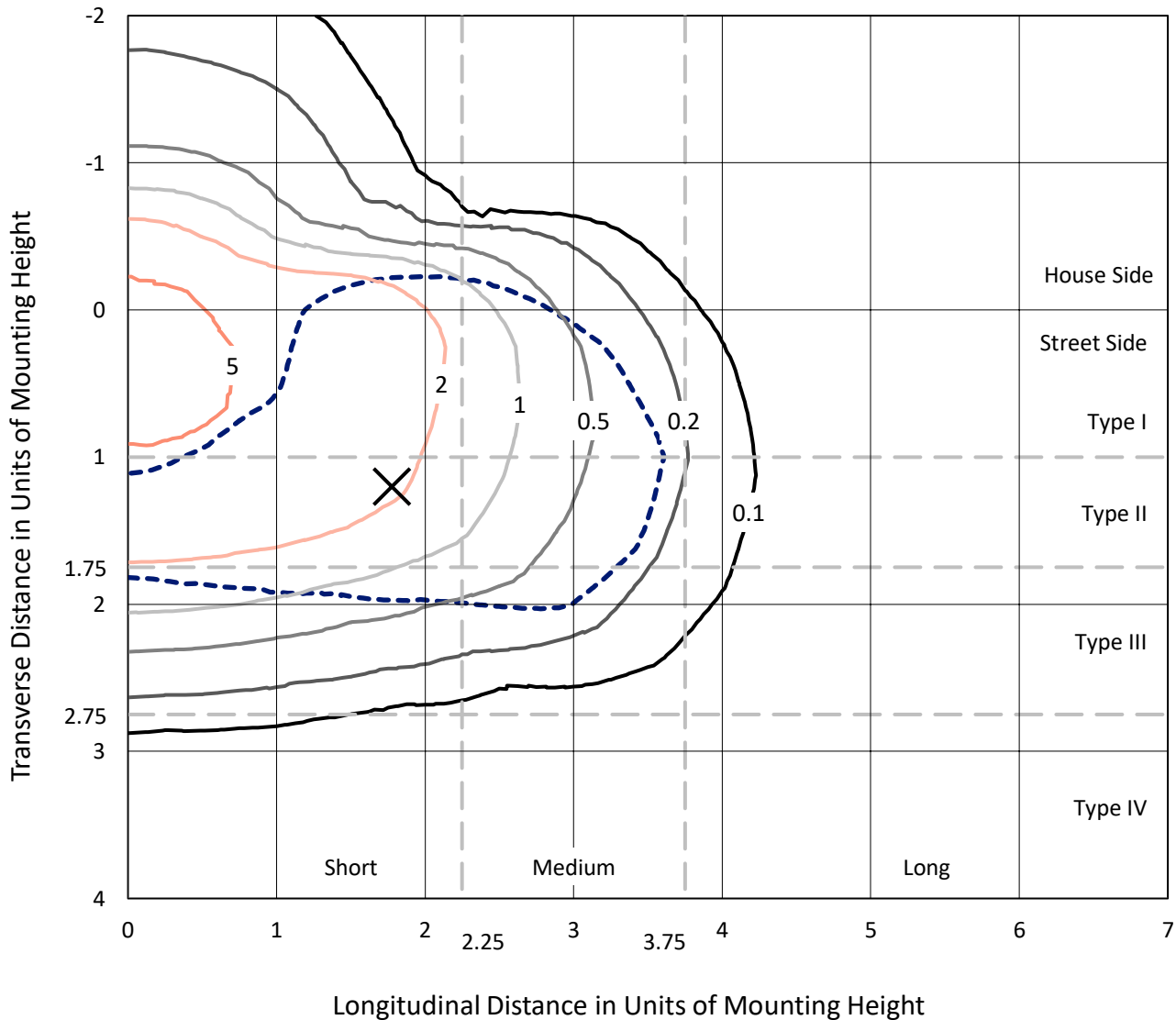
Lumens per Lamp: N/A
Luminaire Lumens: 27106.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

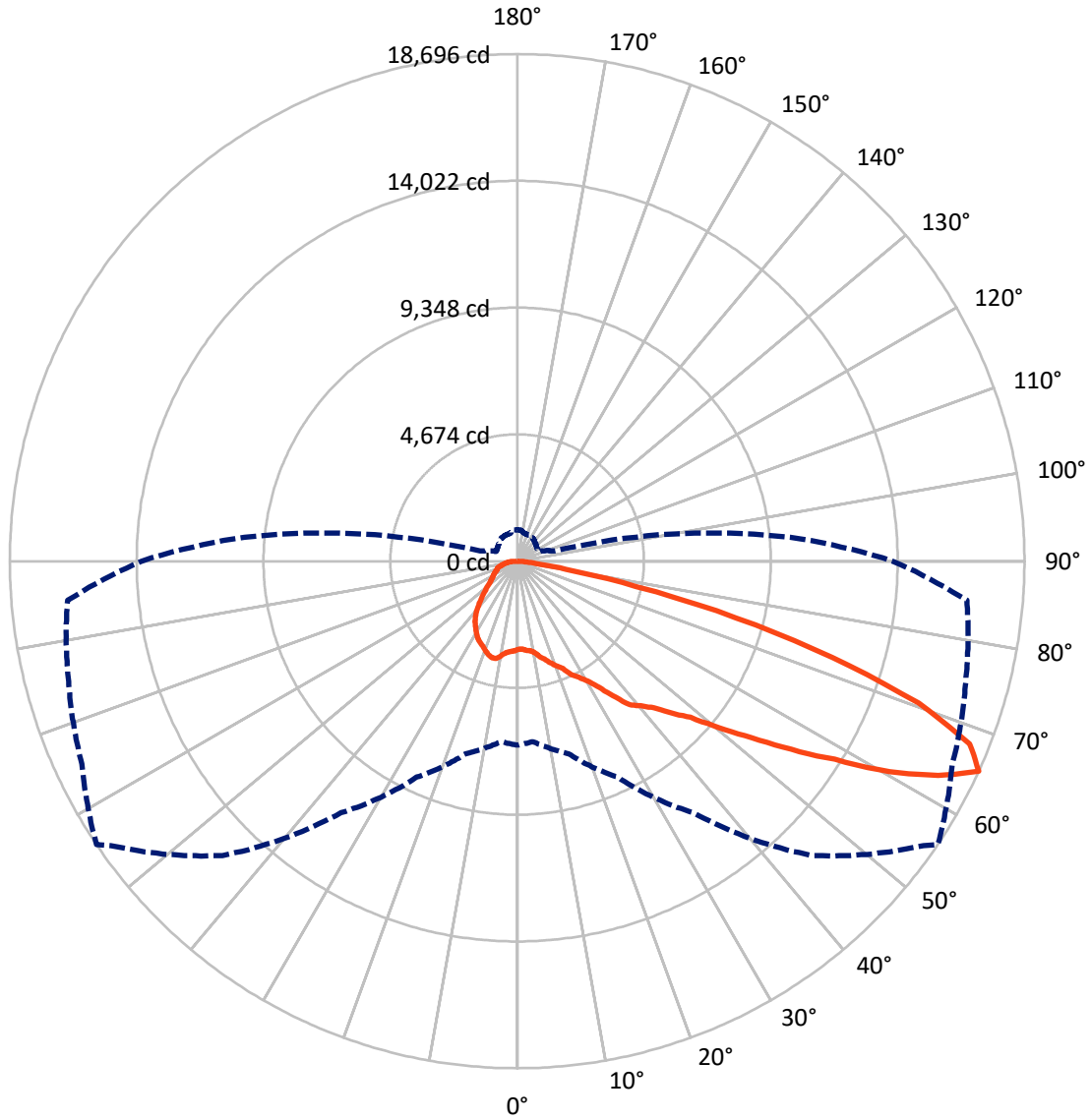
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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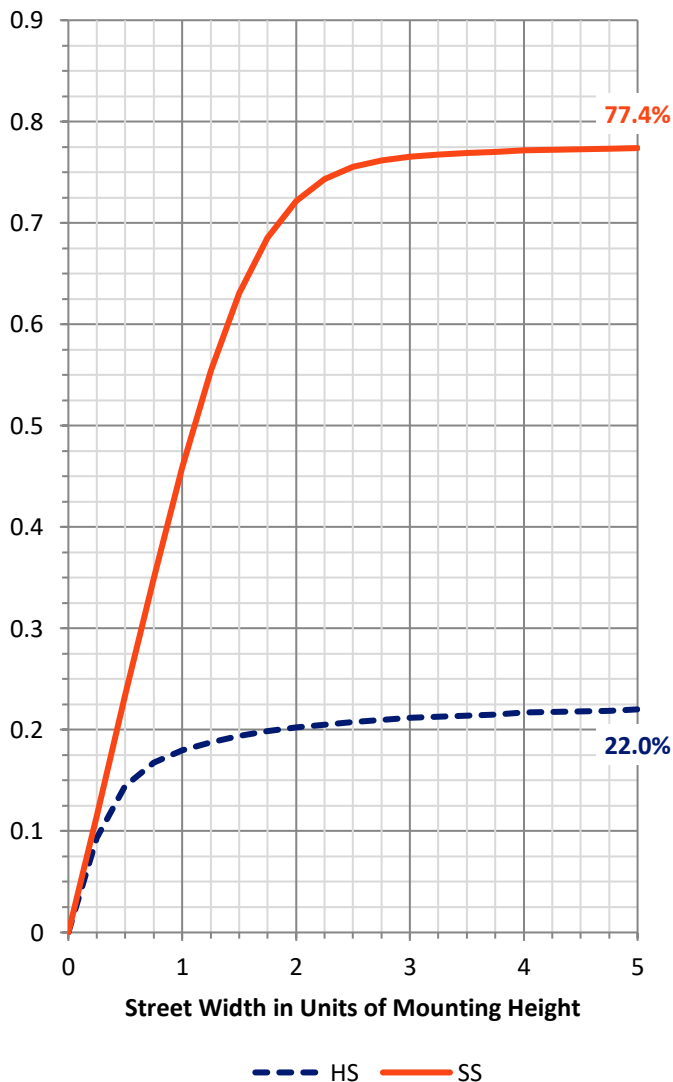
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6079.2	0.0	6079.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21027.7	0.0	21027.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	27106.9	0.0	27106.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.2
10°-20°	1046.9	3.9
20°-30°	1864.1	6.9
30°-40°	2791.5	10.3
40°-50°	4136.0	15.3
50°-60°	6372.9	23.5
60°-70°	7214.9	26.6
70°-80°	2994.3	11.0
80°-90°	363.8	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°	27106.9	100.0
0°-180°	27106.9	100.0

Coefficient of Utilization



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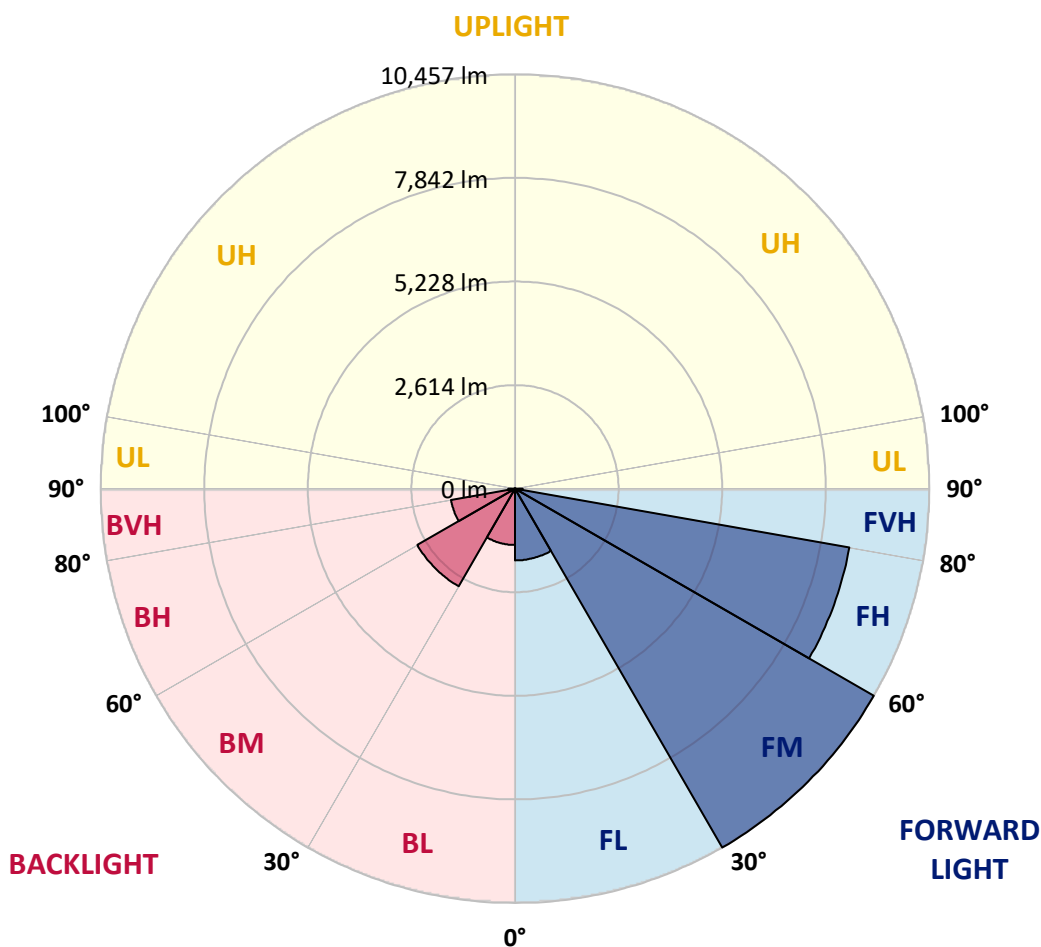
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.5	6.7			
FM (30°-60°)	10456.6	38.6			
FH (60°-80°)	8567.6	31.6			G4/12000
FVH (80°-90°)	191.9	0.7			G2/225
BL (0°-30°)	1422.0	5.2	B3/2500		
BM (30°-60°)	2843.7	10.5	B3/5000		
BH (60°-80°)	1641.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	171.9	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°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
2.5°	3168.5	3185.5	3174.2	3208.2	3236.6	3236.6	3259.3	3242.3	3264.9	3296.2
5°	3273.5	3205.4	3242.3	3259.3	3250.8	3264.9	3242.3	3299.0	3262.1	3321.7
7.5°	3299.0	3324.5	3355.7	3327.4	3352.9	3338.7	3341.5	3333.0	3313.2	3361.4
10°	3486.2	3449.3	3520.2	3477.7	3472.0	3466.3	3455.0	3412.5	3460.7	3463.5
12.5°	3701.8	3667.7	3664.9	3630.9	3676.3	3594.0	3611.0	3588.3	3596.8	3608.2
15°	3857.8	3843.6	3908.9	3869.1	3809.6	3772.7	3812.4	3750.0	3781.2	3775.5
17.5°	4167.0	4164.2	4115.9	4050.7	4016.7	3962.8	3954.2	3928.7	3951.4	3940.1
20°	4382.6	4413.8	4422.3	4345.7	4215.2	4155.6	4141.5	4121.6	4147.1	4138.6
22.5°	4711.6	4663.4	4700.3	4567.0	4518.7	4376.9	4325.8	4297.5	4419.5	4388.2
25°	4921.5	4972.6	4935.7	4890.3	4782.5	4606.7	4569.8	4632.2	4680.4	4646.4
27.5°	5395.2	5344.2	5310.1	5174.0	5103.1	4918.7	4876.1	4853.5	4864.8	4884.7
30°	5755.5	5783.9	5707.3	5610.8	5432.1	5244.9	5145.6	5125.8	5086.1	5052.0
32.5°	6268.9	6226.4	6181.0	6118.6	5965.4	5718.6	5622.2	5548.4	5429.3	5270.4
35°	6515.7	6637.7	6603.6	6436.3	6320.0	6226.4	6198.0	6084.5	5985.3	5735.6
37.5°	6927.0	6978.1	6929.9	6876.0	6822.1	6722.8	6688.7	6719.9	6524.2	6112.9
40°	7193.7	7301.5	7400.7	7250.4	7239.0	7258.9	7049.0	7012.1	6609.3	6393.7
42.5°	7738.3	7783.7	7803.5	7797.9	7863.1	7863.1	7463.1	7383.7	7097.2	6921.3
45°	8458.8	8495.7	8566.6	8617.6	8543.9	8580.8	8010.6	7979.4	7724.1	7690.1
47.5°	9082.9	9170.8	9329.6	9480.0	9576.4	9451.6	8827.6	8606.3	8541.1	8745.3
50°	9627.5	9522.5	9894.1	10047.3	10470.0	10677.0	9729.6	9641.7	9536.7	9928.2
52.5°	9681.4	9823.2	10348.0	10654.3	11525.2	11908.1	10835.9	10799.0	10671.4	11122.4
55°	10067.2	10050.1	10577.7	11241.5	12276.9	12920.8	12276.9	12254.2	11976.2	12404.5
57.5°	10001.9	10174.9	10591.9	11519.5	12954.8	14007.2	13947.7	13791.6	13403.0	13751.9
60°	9780.7	9826.0	10333.8	11511.0	13349.1	15122.0	15751.7	15782.9	14988.7	15266.7
62.5°	8526.9	8631.8	9275.7	10606.1	13068.3	15890.7	17513.3	17402.7	16767.2	16449.5
65°	6782.4	6677.4	7346.8	8785.0	11320.9	15346.1	18284.8	18696.2	17697.7	17116.2
67.5°	4158.5	4133.0	4776.9	6044.8	8470.1	13059.8	17669.3	17989.8	17439.5	16974.3
70°	2141.6	2076.4	2479.2	3372.7	5324.3	9582.1	15377.3	15692.2	16216.9	15224.1
72.5°	998.5	984.3	1199.9	1659.4	2711.8	5633.5	11908.1	12135.1	13241.3	12835.7
75°	587.2	595.7	717.7	868.0	1321.9	2655.1	7902.8	8342.5	9542.4	9250.2
77.5°	439.7	439.7	510.6	604.2	771.6	1026.9	3900.3	4481.9	5579.6	5018.0
80°	323.4	329.0	391.5	453.9	536.1	530.4	1548.8	1815.4	2558.6	2187.0
82.5°	252.5	261.0	303.5	337.6	377.3	320.5	635.4	683.6	1052.4	836.8
85°	175.9	181.5	238.3	229.8	229.8	178.7	263.8	278.0	417.0	397.1
87.5°	42.5	48.2	116.3	127.6	96.4	53.9	82.3	93.6	150.3	173.0
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°
3253.6	0°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
3310.3	2.5°	3267.8	3279.1	3327.4	3301.8	3316.0	3256.4	3304.7	3264.9	3299.0	3282.0
3335.9	5°	3358.6	3333.0	3361.4	3341.5	3341.5	3364.2	3398.3	3372.7	3423.8	3401.1
3355.7	7.5°	3395.4	3398.3	3415.3	3418.1	3403.9	3474.9	3477.7	3469.2	3517.4	3506.1
3491.9	10°	3486.2	3489.0	3520.2	3537.3	3523.1	3548.6	3520.2	3497.6	3494.7	3483.4
3599.7	12.5°	3630.9	3659.2	3653.6	3667.7	3670.6	3562.8	3497.6	3386.9	3372.7	3386.9
3758.5	15°	3764.2	3752.8	3758.5	3786.9	3667.7	3494.7	3378.4	3284.8	3290.5	3293.3
3965.6	17.5°	3923.0	3931.6	3940.1	3809.6	3591.2	3386.9	3284.8	3284.8	3256.4	3267.8
4110.3	20°	4104.6	4070.5	3996.8	3812.4	3457.8	3262.1	3230.9	3230.9	3196.9	3174.2
4266.3	22.5°	4246.4	4178.3	4067.7	3724.5	3338.7	3213.9	3137.3	3083.4	3043.7	2998.3
4439.3	25°	4337.2	4300.3	4084.7	3633.7	3250.8	3086.2	2972.8	2890.5	2839.5	2779.9
4575.5	27.5°	4476.2	4405.3	4133.0	3528.8	3154.3	2958.6	2782.7	2655.1	2558.6	2496.2
4782.5	30°	4663.4	4561.3	4098.9	3378.4	3006.8	2737.3	2530.3	2365.7	2255.1	2204.1
4978.3	32.5°	4816.6	4683.3	4070.5	3242.3	2842.3	2513.2	2238.1	2070.7	2008.3	1943.1
5307.3	35°	5108.7	4844.9	4050.7	3165.7	2694.8	2289.2	1999.8	1855.1	1775.7	1679.3
5503.0	37.5°	5332.8	5125.8	4002.5	3006.8	2504.7	2070.7	1818.3	1687.8	1568.6	1466.5
5956.9	40°	5684.6	5517.2	4005.3	2782.7	2280.6	1883.5	1676.4	1540.3	1389.9	1302.0
6629.2	42.5°	6345.5	5903.0	4022.3	2604.0	2028.2	1730.3	1548.8	1387.1	1236.8	1163.0
7395.1	45°	7156.8	6433.4	3917.4	2442.3	1770.0	1585.7	1395.6	1233.9	1137.5	1083.6
8436.1	47.5°	8090.0	6952.6	3775.5	2138.8	1554.5	1432.5	1253.8	1160.2	1089.3	1058.1
9777.8	50°	9133.9	7695.7	3735.8	1860.8	1387.1	1302.0	1185.7	1114.8	1066.6	1029.7
11289.7	52.5°	10478.5	8560.9	3656.4	1574.3	1242.4	1197.1	1160.2	1112.0	1069.4	1038.2
12699.5	55°	11763.5	9519.7	3571.3	1338.9	1140.3	1146.0	1165.9	1123.3	1086.4	1038.2
14279.5	57.5°	13210.1	10498.3	3256.4	1165.9	1063.7	1120.5	1160.2	1112.0	1075.1	1038.2
15896.4	60°	14103.7	11048.6	2640.9	1015.5	995.7	1072.2	1126.1	1075.1	1035.4	1049.5
16639.6	62.5°	14466.8	10759.3	1991.3	921.9	947.4	1007.0	1072.2	1052.4	1024.0	1077.9
16631.1	65°	13848.4	10092.7	1424.0	842.5	882.2	941.8	1024.0	1046.7	1055.2	1160.2
15275.2	67.5°	12322.3	8787.8	1046.7	777.2	814.1	902.0	1058.1	1094.9	1089.3	1219.7
12818.7	70°	9860.1	6873.1	816.9	723.3	788.6	933.2	1106.3	1106.3	1066.6	1219.7
9777.8	72.5°	7173.8	4844.9	703.5	660.9	723.3	856.7	1100.6	1097.8	1046.7	1114.8
6226.4	75°	4342.9	2819.6	621.2	598.5	621.2	734.7	1052.4	1035.4	964.5	958.8
2995.5	77.5°	2164.3	1418.3	507.8	530.4	541.8	615.5	924.7	950.3	853.8	831.1
1182.9	80°	913.4	618.4	422.7	456.7	456.7	519.1	768.7	785.7	709.2	666.6
468.0	82.5°	417.0	354.6	360.3	397.1	371.6	402.8	609.9	629.7	575.8	504.9
198.6	85°	175.9	201.4	275.2	312.0	275.2	261.0	419.8	442.5	374.4	312.0
85.1	87.5°	79.4	110.6	173.0	226.9	139.0	122.0	224.1	232.6	187.2	139.0
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>
3253.6
3250.8
3369.9
3489.0
3483.4
3392.6
3333.0
3270.6
3140.1
2972.8
2791.2
2524.6
2232.4
1940.2
1670.8
1469.4
1310.5
1168.7
1094.9
1052.4
1035.4
1035.4
1035.4
1035.4
1038.2
1063.7
1160.2
1228.3
1194.2
1075.1
947.4
816.9
652.4
493.6
314.9
130.5
0.0

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